SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491-1.max.rnpbm.

This page gives you Search Results detail for the Application 10728491 and Search Result us-10-72 491-1.max.rnpbm.

start

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OM nucleic - nucleic search, using sw model

Run on:            November 20, 2006, 05:53:40 ; Search time 1403 Seconds
                                            (without alignments)
                                            183.920 Million cell updates/sec

Title:             US-10-728-491-1
Perfect score:     21
Sequence:          1 ggcugcgugccuccucacugg 21

Scoring table:     IDENTITY_NUC
                   Gapop 10.0 , Gapext 1.0

Searched:          18892170 seqs, 6143817638 residues

Total number of hits satisfying chosen parameters:      23237482

Minimum DB seq length: 0
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Database :         Published_Applications_NA_Main:*
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SEARCH REQUEST FORM

Requester's Full Name: _JANE ZARA_   Examiner # : _77512_ Date: _11-13-06_
Art Unit: _1635_   Phone Number: _2-0765_   Serial Number: _10/728, 491_
Location (Bldg/Room#): _2A59_ (Mailbox #): _2018_   Results Format Preferred (circle): **PAPER** DISK
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To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _High Efficacy AS Realpha..._

Inventors (please provide full names): _J. H WANG at al._

Earliest Priority Date: _12-5-03_

Search Topic:
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

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Date Completed: _____   _____ Litigation   ___Commercial ___Oligomer ___Score/Length
   ___ Interference ___SPDI ___Encode/Transl
   _____ Other (specify)

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and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	21	100.0	21	8	US-10-728-491-1	Sequence 1, Appli
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	4	21	100.0	23	8	US-10-728-491-22	Sequence 22, Appl
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	6	20	95.2	20	8	US-10-728-491-21	Sequence 21, Appl
	7	20	95.2	21	8	US-10-728-491-10	Sequence 10, Appl
	8	19.4	92.4	21	8	US-10-728-491-11	Sequence 11, Appl
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c	201	13.4	63.8	18	11	US-10-310-914A-1069624	Sequence 1069624,
	202	13.4	63.8	18	11	US-10-310-914A-1092116	Sequence 1092116,
c	203	13.4	63.8	18	11	US-10-310-914A-1173315	Sequence 1173315,
c	204	13.4	63.8	19	11	US-10-310-914A-810341	Sequence 810341,
c	205	13.4	63.8	19	11	US-10-310-914A-1173317	Sequence 1173317,
c	206	13.4	63.8	19	14	US-11-083-784-465001	Sequence 465001,
c	207	13.4	63.8	19	14	US-11-083-784-1213678	Sequence 1213678,
c	208	13.4	63.8	19	15	US-11-101-244-465001	Sequence 465001,
c	209	13.4	63.8	19	15	US-11-101-244-1213678	Sequence 1213678,
c	210	13.4	63.8	20	3	US-09-915-814-133	Sequence 133, App
	211	13.4	63.8	20	11	US-10-310-914A-79489	Sequence 79489, A
	212	13.4	63.8	22	11	US-10-310-914A-1110482	Sequence 1110482,
	213	13.4	63.8	23	11	US-10-310-914A-1110505	Sequence 1110505,
c	214	13.4	63.8	23	11	US-10-310-914A-1118873	Sequence 1118873,
c	215	13.4	63.8	23	11	US-10-310-914A-1118884	Sequence 1118884,
c	216	13.4	63.8	24	7	US-10-279-633-40	Sequence 40, Appl
	217	13.4	63.8	24	11	US-10-310-914A-79540	Sequence 79540, A
c	218	13.4	63.8	25	6	US-10-098-263B-47432	Sequence 47432, A
c	219	13.4	63.8	25	8	US-10-681-773-84904	Sequence 84904, A
c	220	13.4	63.8	25	8	US-10-681-773-84905	Sequence 84905, A
c	221	13.4	63.8	25	8	US-10-719-956-80007	Sequence 80007, A
c	222	13.4	63.8	25	8	US-10-719-956-116648	Sequence 116648,
	223	13.4	63.8	25	8	US-10-719-956-277080	Sequence 277080,
	224	13.4	63.8	25	8	US-10-719-956-361987	Sequence 361987,
c	225	13.4	63.8	25	8	US-10-719-956-673267	Sequence 673267,
c	226	13.4	63.8	25	9	US-10-719-900-300874	Sequence 300874,
c	227	13.4	63.8	25	9	US-10-719-900-381370	Sequence 381370,
c	228	13.4	63.8	25	9	US-10-719-900-685506	Sequence 685506,
c	229	13.4	63.8	25	10	US-10-809-189-40807	Sequence 40807, A
c	230	13.4	63.8	25	10	US-10-956-157-282967	Sequence 282967,
c	231	13.4	63.8	25	11	US-10-933-982-155053	Sequence 155053,
c	232	13.4	63.8	25	13	US-11-036-317-724865	Sequence 724865,
	233	13.2	62.9	19	11	US-10-310-914A-311589	Sequence 311589,
c	234	13.2	62.9	19	11	US-10-310-914A-1093310	Sequence 1093310,

c 235	13.2	62.9	19	11	US-10-310-914A-1207475	Sequence 1207475,
c 236	13.2	62.9	19	14	US-11-083-784-1140979	Sequence 1140979,
c 237	13.2	62.9	19	15	US-11-101-244-1140979	Sequence 1140979,
c 238	13.2	62.9	21	11	US-10-310-914A-481413	Sequence 481413,
c 239	13.2	62.9	21	11	US-10-310-914A-635415	Sequence 635415,
c 240	13.2	62.9	21	11	US-10-310-914A-993076	Sequence 993076,
241	13.2	62.9	22	11	US-10-310-914A-650325	Sequence 650325,
c 242	13.2	62.9	22	11	US-10-310-914A-993927	Sequence 993927,
c 243	13.2	62.9	23	11	US-10-310-914A-635424	Sequence 635424,
244	13.2	62.9	23	11	US-10-310-914A-969689	Sequence 969689,
c 245	13.2	62.9	24	11	US-10-310-914A-967765	Sequence 967765,
c 246	13.2	62.9	24	11	US-10-310-914A-1207486	Sequence 1207486,
247	13.2	62.9	25	3	US-09-754-853A-574	Sequence 574, App
c 248	13.2	62.9	25	8	US-10-719-956-52619	Sequence 52619, A
c 249	13.2	62.9	25	8	US-10-719-956-151905	Sequence 151905,
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252	13.2	62.9	25	9	US-10-719-900-196672	Sequence 196672,
c 253	13.2	62.9	25	9	US-10-719-900-273321	Sequence 273321,
c 254	13.2	62.9	25	9	US-10-719-900-328024	Sequence 328024,
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c 256	13.2	62.9	25	10	US-10-809-189-15028	Sequence 15028, A
c 257	13.2	62.9	25	10	US-10-956-157-238938	Sequence 238938,
c 258	13.2	62.9	25	10	US-10-750-185-23764	Sequence 23764, A
c 259	13.2	62.9	25	10	US-10-750-623-23764	Sequence 23764, A
c 260	13.2	62.9	25	11	US-10-932-182A-137062	Sequence 137062,
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262	13.2	62.9	25	11	US-10-933-982-192491	Sequence 192491,
263	13.2	62.9	25	11	US-10-933-982-192496	Sequence 192496,
c 264	13.2	62.9	25	11	US-10-934-048A-14283	Sequence 14283, A
265	13.2	62.9	25	11	US-10-934-048A-70495	Sequence 70495, A
c 266	13.2	62.9	25	13	US-11-036-317-2947	Sequence 2947, Ap
c 267	13.2	62.9	25	13	US-11-036-317-6119	Sequence 6119, Ap
c 268	13.2	62.9	25	13	US-11-036-317-6881	Sequence 6881, Ap
c 269	13.2	62.9	25	13	US-11-036-317-14000	Sequence 14000, A
c 270	13.2	62.9	25	13	US-11-036-317-28803	Sequence 28803, A
c 271	13.2	62.9	25	13	US-11-036-317-32448	Sequence 32448, A
c 272	13.2	62.9	25	13	US-11-036-317-36793	Sequence 36793, A
273	13.2	62.9	25	13	US-11-036-317-40148	Sequence 40148, A
274	13.2	62.9	25	13	US-11-036-317-47474	Sequence 47474, A
275	13.2	62.9	25	13	US-11-036-317-64174	Sequence 64174, A
276	13.2	62.9	25	13	US-11-036-317-75990	Sequence 75990, A
c 277	13.2	62.9	25	13	US-11-036-317-132225	Sequence 132225,
278	13.2	62.9	25	13	US-11-036-317-145445	Sequence 145445,
c 279	13.2	62.9	25	13	US-11-036-317-168314	Sequence 168314,
c 280	13.2	62.9	25	13	US-11-036-317-204027	Sequence 204027,
c 281	13.2	62.9	25	13	US-11-036-317-233905	Sequence 233905,
282	13.2	62.9	25	13	US-11-036-317-236892	Sequence 236892,
c 283	13.2	62.9	25	13	US-11-036-317-287110	Sequence 287110,
c 284	13.2	62.9	25	13	US-11-036-317-320329	Sequence 320329,
c 285	13.2	62.9	25	13	US-11-036-317-342525	Sequence 342525,
c 286	13.2	62.9	25	13	US-11-036-317-358005	Sequence 358005,
c 287	13.2	62.9	25	13	US-11-036-317-378732	Sequence 378732,
288	13.2	62.9	25	13	US-11-036-317-456171	Sequence 456171,
c 289	13.2	62.9	25	13	US-11-036-317-503700	Sequence 503700,
c 290	13.2	62.9	25	13	US-11-036-317-603544	Sequence 603544,
291	13.2	62.9	25	13	US-11-036-317-729107	Sequence 729107,
c 292	13.2	62.9	25	13	US-11-036-317-758798	Sequence 758798,
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294	13.2	62.9	25	13	US-11-036-317-898556	Sequence 898556,
c 295	13.2	62.9	25	13	US-11-036-317-900139	Sequence 900139,

c 296	13.2	62.9	25	13	US-11-060-756-149068	Sequence 149068,
c 297	13.2	62.9	25	15	US-11-121-849-34183	Sequence 34183, A
c 298	13.2	62.9	25	15	US-11-121-849-34184	Sequence 34184, A
c 299	13.2	62.9	25	15	US-11-121-849-226634	Sequence 226634,
300	13.2	62.9	25	15	US-11-121-849-398932	Sequence 398932,
c 301	13.2	62.9	25	15	US-11-121-849-403091	Sequence 403091,
c 302	13.2	62.9	25	15	US-11-121-849-529012	Sequence 529012,
303	13.2	62.9	25	16	US-11-136-527-155363	Sequence 155363,
c 304	13.2	62.9	27	10	US-10-505-377-32	Sequence 32, Appl
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306	13	61.9	19	14	US-11-083-784-370356	Sequence 370356,
c 307	13	61.9	19	14	US-11-083-784-389289	Sequence 389289,
c 308	13	61.9	19	14	US-11-083-784-804971	Sequence 804971,
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315	13	61.9	21	8	US-10-728-491-9	Sequence 9, Appli
316	13	61.9	21	10	US-10-955-218-30	Sequence 30, Appl
c 317	13	61.9	21	10	US-10-770-726-23843	Sequence 23843, A
c 318	13	61.9	21	10	US-10-770-726-23844	Sequence 23844, A
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c 322	13	61.9	22	11	US-10-310-914A-1337263	Sequence 1337263,
323	13	61.9	23	11	US-10-310-914A-396820	Sequence 396820,
c 324	13	61.9	23	11	US-10-310-914A-794909	Sequence 794909,
c 325	13	61.9	23	11	US-10-310-914A-1299787	Sequence 1299787,
c 326	13	61.9	24	6	US-10-196-000-5	Sequence 5, Appli
c 327	13	61.9	24	11	US-10-310-914A-205618	Sequence 205618,
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329	13	61.9	25	8	US-10-719-956-147032	Sequence 147032,
330	13	61.9	25	8	US-10-719-956-209543	Sequence 209543,
331	13	61.9	25	8	US-10-719-956-220210	Sequence 220210,
c 332	13	61.9	25	8	US-10-719-956-224188	Sequence 224188,
333	13	61.9	25	8	US-10-719-956-437420	Sequence 437420,
334	13	61.9	25	8	US-10-719-956-437421	Sequence 437421,
c 335	13	61.9	25	8	US-10-719-956-582100	Sequence 582100,
c 336	13	61.9	25	9	US-10-719-900-228765	Sequence 228765,
c 337	13	61.9	25	9	US-10-719-900-345697	Sequence 345697,
338	13	61.9	25	9	US-10-719-900-458448	Sequence 458448,
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342	13	61.9	25	9	US-10-719-900-824273	Sequence 824273,
343	13	61.9	25	9	US-10-719-900-887533	Sequence 887533,
344	13	61.9	25	9	US-10-719-900-922787	Sequence 922787,
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c 346	13	61.9	25	10	US-10-956-157-279417	Sequence 279417,
347	13	61.9	25	11	US-10-932-182A-36189	Sequence 36189, A
348	13	61.9	25	11	US-10-932-182A-48938	Sequence 48938, A
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c 350	13	61.9	25	11	US-10-933-982-87286	Sequence 87286, A
c 351	13	61.9	25	11	US-10-933-982-168071	Sequence 168071,
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c 353	13	61.9	25	13	US-11-036-317-176402	Sequence 176402,
c 354	13	61.9	25	13	US-11-036-317-187789	Sequence 187789,
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c 356	13	61.9	25	13	US-11-036-317-211671	Sequence 211671,

c 357	13	61.9	25	13	US-11-036-317-232254	Sequence 232254,
c 358	13	61.9	25	13	US-11-036-317-236671	Sequence 236671,
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c 363	13	61.9	25	13	US-11-036-317-289489	Sequence 289489,
c 364	13	61.9	25	13	US-11-036-317-306088	Sequence 306088,
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c 368	13	61.9	25	13	US-11-036-317-353331	Sequence 353331,
c 369	13	61.9	25	13	US-11-036-317-376108	Sequence 376108,
c 370	13	61.9	25	13	US-11-036-317-472730	Sequence 472730,
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c 372	13	61.9	25	13	US-11-036-317-484010	Sequence 484010,
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c 377	13	61.9	25	13	US-11-036-317-798594	Sequence 798594,
c 378	13	61.9	25	13	US-11-036-317-808728	Sequence 808728,
c 379	13	61.9	25	13	US-11-036-317-909832	Sequence 909832,
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c 381	13	61.9	25	13	US-11-036-317-938302	Sequence 938302,
c 382	13	61.9	25	13	US-11-036-317-939990	Sequence 939990,
c 383	13	61.9	25	13	US-11-036-317-940862	Sequence 940862,
c 384	13	61.9	25	13	US-11-036-317-965436	Sequence 965436,
c 385	13	61.9	25	13	US-11-036-317-978330	Sequence 978330,
c 386	13	61.9	25	13	US-11-060-756-144892	Sequence 144892,
c 387	13	61.9	25	13	US-11-060-756-183368	Sequence 183368,
c 388	13	61.9	25	13	US-11-060-756-260872	Sequence 260872,
c 389	13	61.9	25	13	US-11-060-756-262778	Sequence 262778,
c 390	13	61.9	25	15	US-11-121-849-25500	Sequence 25500, A
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c 394	13	61.9	25	15	US-11-121-849-260882	Sequence 260882,
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396	13	61.9	25	15	US-11-121-849-274356	Sequence 274356,
397	13	61.9	25	15	US-11-121-849-401451	Sequence 401451,
c 398	13	61.9	25	15	US-11-121-849-429565	Sequence 429565,
c 399	13	61.9	25	15	US-11-121-849-541935	Sequence 541935,
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c 401	13	61.9	25	16	US-11-136-527-265238	Sequence 265238,
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c 403	13	61.9	25	16	US-11-136-527-271555	Sequence 271555,
c 404	13	61.9	25	16	US-11-136-527-271556	Sequence 271556,
c 405	13	61.9	25	16	US-11-136-527-271570	Sequence 271570,
c 406	13	61.9	25	16	US-11-136-527-271574	Sequence 271574,
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c 408	13	61.9	25	16	US-11-136-527-322780	Sequence 322780,
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c 410	13	61.9	26	11	US-10-310-914A-961868	Sequence 961868,
c 411	13	61.9	27	7	US-10-335-592-32	Sequence 32, Appl
c 412	13	61.9	27	7	US-10-291-058A-1	Sequence 1, Appli
c 413	13	61.9	27	11	US-10-310-914A-982218	Sequence 982218,
c 414	13	61.9	29	6	US-10-012-070A-20	Sequence 20, Appl
c 415	13	61.9	29	6	US-10-012-013-13	Sequence 13, Appl
c 416	12.8	61.0	18	11	US-10-310-914A-854209	Sequence 854209,
417	12.8	61.0	18	11	US-10-310-914A-1158461	Sequence 1158461,

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	422	12.8	61.0	19	11	US-10-310-914A-970995	Sequence 970995,
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	426	12.8	61.0	19	14	US-11-083-784-784384	Sequence 784384,
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c	443	12.8	61.0	22	11	US-10-310-914A-1326080	Sequence 1326080,
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	446	12.8	61.0	24	11	US-10-310-914A-206861	Sequence 206861,
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c	450	12.8	61.0	25	8	US-10-719-956-170975	Sequence 170975,
c	451	12.8	61.0	25	8	US-10-719-956-354362	Sequence 354362,
c	452	12.8	61.0	25	8	US-10-719-956-380980	Sequence 380980,
	453	12.8	61.0	25	8	US-10-719-956-443104	Sequence 443104,
	454	12.8	61.0	25	8	US-10-719-956-591120	Sequence 591120,
	455	12.8	61.0	25	8	US-10-719-956-591121	Sequence 591121,
	456	12.8	61.0	25	8	US-10-719-956-677433	Sequence 677433,
c	457	12.8	61.0	25	9	US-10-719-900-13242	Sequence 13242, A
c	458	12.8	61.0	25	9	US-10-719-900-249493	Sequence 249493,
	459	12.8	61.0	25	9	US-10-719-900-263214	Sequence 263214,
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c	462	12.8	61.0	25	9	US-10-719-900-599529	Sequence 599529,
	463	12.8	61.0	25	9	US-10-719-900-657132	Sequence 657132,
	464	12.8	61.0	25	9	US-10-719-900-657133	Sequence 657133,
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	466	12.8	61.0	25	9	US-10-719-900-717784	Sequence 717784,
	467	12.8	61.0	25	9	US-10-719-900-925964	Sequence 925964,
	468	12.8	61.0	25	10	US-10-809-189-125612	Sequence 125612,
c	469	12.8	61.0	25	10	US-10-956-157-152637	Sequence 152637,
c	470	12.8	61.0	25	10	US-10-956-157-293008	Sequence 293008,
	471	12.8	61.0	25	10	US-10-750-185-6263	Sequence 6263, Ap
	472	12.8	61.0	25	10	US-10-750-623-6263	Sequence 6263, Ap
c	473	12.8	61.0	25	11	US-10-310-914A-1326061	Sequence 1326061,
c	474	12.8	61.0	25	11	US-10-932-182A-68255	Sequence 68255, A
c	475	12.8	61.0	25	11	US-10-933-982-2344	Sequence 2344, Ap
c	476	12.8	61.0	25	11	US-10-933-982-3190	Sequence 3190, Ap
c	477	12.8	61.0	25	11	US-10-934-048A-108835	Sequence 108835,
c	478	12.8	61.0	25	13	US-11-036-317-87760	Sequence 87760, A

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	487	12.8	61.0	25	13	US-11-036-317-432768	Sequence 432768,
	488	12.8	61.0	25	13	US-11-036-317-470732	Sequence 470732,
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c	491	12.8	61.0	25	13	US-11-036-317-515661	Sequence 515661,
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c	501	12.8	61.0	25	13	US-11-036-317-877136	Sequence 877136,
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c	503	12.8	61.0	25	13	US-11-060-756-168358	Sequence 168358,
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	505	12.8	61.0	25	15	US-11-121-849-163852	Sequence 163852,
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	508	12.8	61.0	25	15	US-11-121-849-304615	Sequence 304615,
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	513	12.8	61.0	25	16	US-11-136-527-284941	Sequence 284941,
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c	515	12.8	61.0	30	10	US-10-850-359-647	Sequence 647, App
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	523	12.6	60.0	20	11	US-10-310-914A-1026079	Sequence 1026079,
	524	12.6	60.0	20	11	US-10-831-286A-22795	Sequence 22795, A
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c 543	12.6	60.0	24	3	US-09-940-185-1397	Sequence 1397, Ap
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c 548	12.6	60.0	25	3	US-09-866-108-3432	Sequence 3432, Ap
c 549	12.6	60.0	25	3	US-09-866-108-3433	Sequence 3433, Ap
c 550	12.6	60.0	25	3	US-09-866-108-3434	Sequence 3434, Ap
c 551	12.6	60.0	25	3	US-09-866-108-3435	Sequence 3435, Ap
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c 554	12.6	60.0	25	6	US-10-060-756A-2210	Sequence 2210, Ap
c 555	12.6	60.0	25	6	US-10-060-756A-2211	Sequence 2211, Ap
c 556	12.6	60.0	25	6	US-10-060-756A-2212	Sequence 2212, Ap
c 557	12.6	60.0	25	6	US-10-060-756A-2213	Sequence 2213, Ap
c 558	12.6	60.0	25	6	US-10-060-756A-2214	Sequence 2214, Ap
c 559	12.6	60.0	25	6	US-10-060-756A-2215	Sequence 2215, Ap
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c 564	12.6	60.0	25	8	US-10-723-361-3432	Sequence 3432, Ap
c 565	12.6	60.0	25	8	US-10-723-361-3433	Sequence 3433, Ap
c 566	12.6	60.0	25	8	US-10-723-361-3434	Sequence 3434, Ap
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c	639	12.6	60.0	25	10	US-10-890-776A-2215	Sequence 2215, Ap
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	682	12.6	60.0	25	13	US-11-036-317-812592	Sequence 812592,
c	683	12.6	60.0	25	13	US-11-036-317-839726	Sequence 839726,
c	684	12.6	60.0	25	13	US-11-036-317-844584	Sequence 844584,
c	685	12.6	60.0	25	13	US-11-036-317-846388	Sequence 846388,
	686	12.6	60.0	25	13	US-11-036-317-893649	Sequence 893649,
c	687	12.6	60.0	25	13	US-11-036-317-895101	Sequence 895101,
c	688	12.6	60.0	25	13	US-11-036-317-905020	Sequence 905020,
	689	12.6	60.0	25	13	US-11-036-317-977343	Sequence 977343,
	690	12.6	60.0	25	13	US-11-036-317-980735	Sequence 980735,
	691	12.6	60.0	25	13	US-11-036-317-984805	Sequence 984805,
c	692	12.6	60.0	25	13	US-11-060-756-122366	Sequence 122366,
c	693	12.6	60.0	25	13	US-11-060-756-140071	Sequence 140071,
c	694	12.6	60.0	25	13	US-11-060-756-152867	Sequence 152867,
c	695	12.6	60.0	25	13	US-11-060-756-190021	Sequence 190021,
c	696	12.6	60.0	25	13	US-11-060-756-215265	Sequence 215265,
c	697	12.6	60.0	25	13	US-11-060-756-261209	Sequence 261209,
c	698	12.6	60.0	25	13	US-11-060-756-261210	Sequence 261210,
c	699	12.6	60.0	25	13	US-11-060-756-270768	Sequence 270768,
c	700	12.6	60.0	25	15	US-11-121-849-2870	Sequence 2870, Ap
c	701	12.6	60.0	25	15	US-11-121-849-60212	Sequence 60212, A
	702	12.6	60.0	25	15	US-11-121-849-74063	Sequence 74063, A
c	703	12.6	60.0	25	15	US-11-121-849-95869	Sequence 95869, A
c	704	12.6	60.0	25	15	US-11-121-849-118140	Sequence 118140,
c	705	12.6	60.0	25	15	US-11-121-849-119016	Sequence 119016,
	706	12.6	60.0	25	15	US-11-121-849-162832	Sequence 162832,
	707	12.6	60.0	25	15	US-11-121-849-223933	Sequence 223933,
	708	12.6	60.0	25	15	US-11-121-849-235257	Sequence 235257,
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	716	12.6	60.0	25	16	US-11-136-527-128781	Sequence 128781,
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	718	12.6	60.0	25	16	US-11-136-527-216999	Sequence 216999,
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	722	12.6	60.0	25	16	US-11-136-527-246393	Sequence 246393,

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	724	12.6	60.0	25	16	US-11-136-527-332411	Sequence 332411,
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c	727	12.6	60.0	26	11	US-10-310-914A-813928	Sequence 813928,
	728	12.6	60.0	27	9	US-10-744-796-18	Sequence 18, Appl
	729	12.6	60.0	27	9	US-10-744-796-22	Sequence 22, Appl
	730	12.6	60.0	27	11	US-10-310-914A-341182	Sequence 341182,
	731	12.6	60.0	30	10	US-10-850-359-220	Sequence 220, App
	732	12.6	60.0	30	15	US-11-046-644-66	Sequence 66, Appl
	733	12.6	60.0	30	15	US-11-046-456-66	Sequence 66, Appl
c	734	12.4	59.0	17	3	US-09-864-785-692	Sequence 692, App
c	735	12.4	59.0	17	3	US-09-864-785-2983	Sequence 2983, Ap
c	736	12.4	59.0	17	3	US-09-864-785-2984	Sequence 2984, Ap
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	743	12.4	59.0	19	11	US-10-310-914A-641632	Sequence 641632,
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c	782	12.4	59.0	19	15	US-11-110-274-592	Sequence 592, App
c	783	12.4	59.0	19	15	US-11-110-274-593	Sequence 593, App

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c 785	12.4	59.0	20	11	US-10-310-914A-114400	Sequence 114400,
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790	12.4	59.0	21	9	US-10-751-736-18974	Sequence 18974, A
c 791	12.4	59.0	21	9	·US-10-751-736-36493	Sequence 36493, A
c 792	12.4	59.0	21	9	US-10-751-736-36494	Sequence 36494, A
c 793	12.4	59.0	21	9	US-10-751-736-36496	Sequence 36496, A
c 794	12.4	59.0	21	9	US-10-751-736-36497	Sequenċe 36497, A
c 795	12.4	59.0	21	9	US-10-751-736-36682	Sequence 36682, A
c 796	12.4	59.0	21	11	US-10-310-914A-370406	Sequence 370406,
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c 800	12.4	59.0	21	15	US-11-110-274-258	Sequence 258, App
c 801	12.4	59.0	21	15	US-11-110-274-259	Sequence 259, App
c 802	12.4	59.0	21	15	US-11-110-274-260	Sequence 260, App
c 803	12.4	59.0.	21	15	US-11-110-274-261	Sequence 261, App
c 804	12.4	59.0	22	11	US-10-310-914A-239457	Sequence 239457,
c 805	12.4	59.0	22	11	US-10-310-914A-580643	Sequence 580643,
c 806	12.4	59.0	22	11	US-10-310-914A-678768	Sequence 678768,
c 807	12.4	59.0	22	11	US-10-310-914A-882175	Sequence 882175,
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c 811	12.4	59.0	23	11	US-10-310-914A-612882	Sequence 612882,
812	12.4	59.0	24	3	US-09-940-185-2835	Sequence 2835, Ap
c 813	12.4	59.0	24	11	US-10-310-914A-888846	Sequence 888846,
814	12.4	59.0	24	11	US-10-310-914A-1264528	Sequence 1264528,
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c 816	12.4	59.0	25	8	US-10-719-956-24829	Sequence 24829, A
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829	12.4	59.0	25	8	US-10-719-956-698774	Sequence 698774,
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c 841	12.4	59.0	25	10	US-10-809-189-124367	Sequence 124367,
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c 843	12.4	59.0	25	10	US-10-809-189-124383	Sequence 124383,
c 844	12.4	59.0	25	10	US-10-956-157-148516	Sequence 148516,

c 845	12.4	59.0	25	10	US-10-956-157-254878	Sequence 254878,
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c 880	12.4	59.0	25	13	US-11-060-756-277465	Sequence 277465,
c 881	12.4	59.0	25	13	US-11-060-756-292509	Sequence 292509,
c 882	12.4	59.0	25	13	US-11-060-756-302250	Sequence 302250,
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887	12.4	59.0	25	15	US-11-121-849-229072	Sequence 229072,
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892	12.4	59.0	25	15	US-11-121-849-436971	Sequence 436971,
893	12.4	59.0	25	15	US-11-121-849-437527	Sequence 437527,
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898	12.4	59.0	25	15	US-11-121-849-532261	Sequence 532261,
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c 903	12.4	59.0	25	16	US-11-136-527-238977	Sequence 238977,
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c 905	12.4	59.0	25	16	US-11-136-527-250403	Sequence 250403,

c 906	12.4	59.0	25	16	US-11-136-527-250424	Sequence 250424,
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908	12.4	59.0	25	16	US-11-136-527-291882	Sequence 291882,
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911	12.4	59.0	29	11	US-10-310-914A-247854	Sequence 247854,
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914	12.2	58.1	18	11	US-10-310-914A-366785	Sequence 366785,
c 915	12.2	58.1	18	11	US-10-310-914A-384232	Sequence 384232,
c 916	12.2	58.1	18	11	US-10-310-914A-682396	Sequence 682396,
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ALIGNMENTS

RESULT 1
US-10-728-491-1
; Sequence 1, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 1
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide poly-DNP-RNA-21
US-10-728-491-1

    Query Match   100.0%; Score 21; DB 8; Length 21;

Best Local Similarity   100.0%; Pred. No. 6.4;
   Matches   21; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Db        1 GGCUGCGUGCCUCCUCACUGG 21
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RESULT 2
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; Sequence 3, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 3
;   LENGTH: 21
;   TYPE: DNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Mixed backbone (DNA/RNA)oligonucleotide - MBO-21
US-10-728-491-3

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   Matches   18; Conservative   3; Mismatches   0; Indels   0; Gaps   0;

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RESULT 3
US-10-801-118-7
; Sequence 7, Application US/10801118
; Publication No. US20040248841A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui H
; APPLICANT: Liao, Hongtao
; APPLICANT: Shen, Long
; APPLICANT: Chen, Xiaolan
; TITLE OF INVENTION: POLY-DNA-siRNA
; FILE REFERENCE: DNPP-2007US0
; CURRENT APPLICATION NUMBER: US/10/801,118
; CURRENT FILING DATE: 2004-03-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
;   LENGTH: 21
;   TYPE: DNA
;   ORGANISM: Human
US-10-801-118-7

   Query Match   100.0%; Score 21; DB 9; Length 21;
   Best Local Similarity   100.0%; Pred. No. 6.4;

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	17	81.0	18	2	AR080883	AR080883 Sequence
2	17	81.0	18	2	AR080886	AR080886 Sequence
3	17	81.0	18	2	AR080888	AR080888 Sequence
4	17	81.0	18	2	BD107649	BD107649 Modified
5	17	81.0	18	2	BD107652	BD107652 Modified
6	17	81.0	18	2	BD107654	BD107654 Modified
7	17	81.0	18	2	BD192474	BD192474 Compositi
8	17	81.0	18	2	BD192475	BD192475 Compositi
9	17	81.0	18	2	BD192476	BD192476 Compositi
10	17	81.0	18	2	AR208385	AR208385 Sequence
11	17	81.0	18	2	I49062	I49062 Sequence 2
12	17	81.0	18	2	I76423	I76423 Sequence 2
13	17	81.0	18	2	AR430158	AR430158 Sequence
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18	17	81.0	18	2	AR680528	AR680528 Sequence
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c	161	12	57.1	27	2	AR039526	AR039526 Sequence
c	162	12	57.1	30	2	AR073283	AR073283 Sequence
c	163	12	57.1	30	2	CS080293	CS080293 Sequence
	164	12	57.1	30	2	CS080294	CS080294 Sequence
c	165	12	57.1	30	2	AR637329	AR637329 Sequence
	166	12	57.1	30	2	AR637330	AR637330 Sequence
c	167	12	57.1	30	2	AR699696	AR699696 Sequence
	168	12	57.1	30	2	AR699697	AR699697 Sequence
	169	12	57.1	30	2	AX611235	AX611235 Sequence
c	170	11.8	56.2	16	2	CQ858613	CQ858613 Sequence
c	171	11.8	56.2	19	2	A83994	A83994 Sequence 15
c	172	11.8	56.2	19	2	BD191448	BD191448 Novel pri
c	173	11.8	56.2	19	2	AR242821	AR242821 Sequence
	174	11.8	56.2	19	2	AX040327	AX040327 Sequence

c	175	11.8	56.2	20	2	A10409	A10409 Oligonucleo
c	176	11.8	56.2	20	2	A83988	A83988 Sequence 9
c	177	11.8	56.2	20	2	A83998	A83998 Sequence 19
c	178	11.8	56.2	20	2	BD191442	BD191442 Novel pri
c	179	11.8	56.2	20	2	BD191452	BD191452 Novel pri
c	180	11.8	56.2	20	2	BD251981	BD251981 Bone sial
c	181	11.8	56.2	20	2	AR242815	AR242815 Sequence
c	182	11.8	56.2	20	2	AR242825	AR242825 Sequence
	183	11.8	56.2	20	2	AR559472	AR559472 Sequence
	184	11.8	56.2	21	2	CS237068	CS237068 Sequence
c	185	11.8	56.2	21	2	CS237069	CS237069 Sequence
	186	11.8	56.2	21	2	AR298073	AR298073 Sequence
c	187	11.8	56.2	22	2	AR093708	AR093708 Sequence
c	188	11.8	56.2	22	2	AR139632	AR139632 Sequence
c	189	11.8	56.2	22	2	AR154144	AR154144 Sequence
c	190	11.8	56.2	23	2	BD167866	BD167866 Survivin-
c	191	11.8	56.2	23	2	BD185378	BD185378 Survivin-
c	192	11.8	56.2	23	2	CS070735	CS070735 Sequence
c	193	11.8	56.2	23	2	AR179492	AR179492 Sequence
c	194	11.8	56.2	23	2	AR632161	AR632161 Sequence
c	195	11.8	56.2	25	2	AR093710	AR093710 Sequence
c	196	11.8	56.2	25	2	AR139634	AR139634 Sequence
c	197	11.8	56.2	25	2	AR154146	AR154146 Sequence
c	198	11.8	56.2	25	2	BD103489	BD103489 New recom
	199	11.8	56.2	26	2	AR093709	AR093709 Sequence
	200	11.8	56.2	26	2	AR139633	AR139633 Sequence
	201	11.8	56.2	26	2	AR154145	AR154145 Sequence
	202	11.8	56.2	28	2	BD097272	BD097272 Novel col
c	203	11.6	55.2	18	2	BD185983	BD185983 Novel pol
	204	11.6	55.2	18	2	BD224982	BD224982 Antisense
	205	11.6	55.2	18	2	AR211204	AR211204 Sequence
c	206	11.6	55.2	18	2	AX195341	AX195341 Sequence
	207	11.6	55.2	20	2	AR026532	AR026532 Sequence
	208	11.6	55.2	20	2	AR067189	AR067189 Sequence
	209	11.6	55.2	20	2	AR110493	AR110493 Sequence
	210	11.6	55.2	20	2	AR137046	AR137046 Sequence
	211	11.6	55.2	20	2	AX962779	AX962779 Sequence
c	212	11.6	55.2	20	2	AX962849	AX962849 Sequence
	213	11.6	55.2	20	2	BD170545	BD170545 Method of
	214	11.6	55.2	20	2	BD185558	BD185558 A method
	215	11.6	55.2	20	2	BD238365	BD238365 HER-2 bin
	216	11.6	55.2	20	2	AR451590	AR451590 Sequence
	217	11.6	55.2	21	2	DD171733	DD171733 THERAPEUT
	218	11.6	55.2	21	2	AR296460	AR296460 Sequence
	219	11.6	55.2	22	2	BD176769	BD176769 Method of
	220	11.6	55.2	22	2	AR182252	AR182252 Sequence
	221	11.6	55.2	22	2	AR322526	AR322526 Sequence
	222	11.6	55.2	22	2	AX226426	AX226426 Sequence
	223	11.6	55.2	22	2	AX703140	AX703140 Sequence
c	224	11.6	55.2	23	2	BD176770	BD176770 Method of
	225	11.6	55.2	23	2	AX454956	AX454956 Sequence
c	226	11.6	55.2	24	2	AX290800	AX290800 Sequence
c	227	11.6	55.2	25	2	CQ618689	CQ618689 Sequence
c	228	11.6	55.2	25	2	CQ618697	CQ618697 Sequence
c	229	11.6	55.2	25	2	AR459752	AR459752 Sequence
c	230	11.6	55.2	25	2	AR459760	AR459760 Sequence
c	231	11.6	55.2	25	2	AX500901	AX500901 Sequence
c	232	11.6	55.2	25	2	AX500909	AX500909 Sequence
	233	11.6	55.2	25	2	AX784330	AX784330 Sequence
	234	11.6	55.2	25	2	AX784331	AX784331 Sequence
c	235	11.6	55.2	26	2	CQ797677	CQ797677 Sequence

c	236	11.6	55.2	27	2	BD068627	BD068627 Enzymatic
c	237	11.6	55.2	27	2	CQ797685	CQ797685 Sequence
c	238	11.6	55.2	27	2	AR403127	AR403127 Sequence
	239	11.6	55.2	27	2	AX763847	AX763847 Sequence
	240	11.6	55.2	28	2	CS020224	CS020224 Sequence
	241	11.6	55.2	28	2	CS160992	CS160992 Sequence
	242	11.6	55.2	30	2	AR109711	AR109711 Sequence
c	243	11.6	55.2	30	2	BD133737	BD133737 Hybrid en
c	244	11.6	55.2	30	2	E59884	E59884 Method for
c	245	11.6	55.2	30	2	AR203427	AR203427 Sequence
c	246	11.6	55.2	30	2	AR226423	AR226423 Sequence
c	247-	11.6	55.2	30	2	AR236687	AR236687 Sequence
c	248	11.6	55.2	30	2	AR340229	AR340229 Sequence
c	249	11.6	55.2	30	2	AR404063	AR404063 Sequence
c	250	11.6	55.2	30	2	AR581254	AR581254 Sequence
c	251	11.6	55.2	30	2	AR690558	AR690558 Sequence
c	252	11.6	55.2	30	2	AX343240	AX343240 Sequence
c	253	11.6	55.2	30	2	AX353888	AX353888 Sequence
c	254	11.6	55.2	30	2	AX384015	AX384015 Sequence
c	255	11.4	54.3	17	2	AX783469	AX783469 Sequence
c	256	11.4	54.3	17	2	AX783470	AX783470 Sequence
c	257	11.4	54.3	17	2	AX783471	AX783471 Sequence
c	258	11.4	54.3	17	2	AX783472	AX783472 Sequence
c	259	11.4	54.3	17	2	AX783473	AX783473 Sequence
	260	11.4	54.3	18	2	AR078866	AR078866 Sequence
c	261	11.4	54.3	18	2	BD086267	BD086267 Vector. 8
	262	11.4	54.3	18	2	AR215605	AR215605 Sequence
c	263	11.4	54.3	18	2	AX003403	AX003403 Sequence
	264	11.4	54.3	20	2	AR107568	AR107568 Sequence
	265	11.4	54.3	20	2.	AR107569	AR107569 Sequence
	266	11.4	54.3	20	2	AR107570	AR107570 Sequence
	267	11.4	54.3	20	2	AR107571	AR107571 Sequence
c	268	11.4	54.3	20	2	AR148273	AR148273 Sequence
	269	11.4	54.3	20	2	BD088576	BD088576 A method
c	270	11.4	54.3	20	2	AR373829	AR373829 Sequence
c	271	11.4	54.3	20	2	AX020082	AX020082 Sequence
c	272	11.4	54.3	20	2	AX418826	AX418826 Sequence
c	273	11.4	54.3	20	2	AX657407	AX657407 Sequence
	274	11.4	54.3	21	2	AX114322	AX114322 Sequence
	275	11.4	54.3	21	2	AX458722	AX458722 Sequence
c	276	11.4	54.3	22	2	AR162049	AR162049 Sequence
c	277	11.4	54.3	22	2	CQ971734	CQ971734 Sequence
c	278	11.4	54.3	22	2	CS163097	CS163097 Sequence
	279	11.4	54.3	22	2	AX235471	AX235471 Sequence
	280	11.4	54.3	22	2	AX235483	AX235483 Sequence
	281	11.4	54.3	22	2	AX769421	AX769421 Sequence
	282	11.4	54.3	23	2	AR146760	AR146760 Sequence
	283	11.4	54.3	23	2	BD142691	BD142691 Polypepti
c	284	11.4	54.3	23	2	CQ875212	CQ875212 Sequence
	285	11.4	54.3	23	2	CS174529	CS174529 Sequence
c	286	11.4	54.3	23	2	AX077382	AX077382 Sequence
c	287	11.4	54.3	24	2	BD069133	BD069133 Methods f
	288	11.4	54.3	24	2	CS163100	CS163100 Sequence
	289	11.4	54.3	24	2	CS245625	CS245625 Sequence
	290	11.4	54.3	24	2	AR252746	AR252746 Sequence
c	291	11.4	54.3	24	2	AR490184	AR490184 Sequence
	292	11.4	54.3	24	2	AR693636	AR693636 Sequence
	293	11.4	54.3	24	2	AR706188	AR706188 Sequence
	294	11.4	54.3	24	2	AR757561	AR757561 Sequence
	295	11.4	54.3	24	2	AR759061	AR759061 Sequence
	296	11.4	54.3	24	2	AR776375	AR776375 Sequence

	297	11.4	54.3	24	2	AX403639	AX403639 Sequence
c	298	11.4	54.3	25	2	CQ767707	CQ767707 Sequence
c	299	11.4	54.3	25	2	AR697500	AR697500 Sequenc
c	300	11.4	54.3	25	2	AR762223	AR762223 Sequence
c	301	11.4	54.3	25	2	AR777494	AR777494 Sequence
c	302	11.4	54.3	25	2	AX538212	AX538212 Sequence
c	303	11.4	54.3	25	2	AX784359	AX784359 Sequence
c	304	11.4	54.3	25	2	AX784360	AX784360 Sequence
c	305	11.4	54.3	25	2	AX784361	AX784361 Sequence
c	306	11.4	54.3	25	2	AX784362	AX784362 Sequence
c	307	11.4	54.3	25	2	AX784363	AX784363 Sequence
c	308	11.4	54.3	25	2	AX784364	AX784364 Sequence
c	309	11.4	54.3	25	2	AX784365	AX784365 Sequence
c	310	11.4	54.3	25	2	AX784366	AX784366 Sequence
c	311	11.4	54.3	25	2	AX784367	AX784367 Sequence
c	312	11.4	54.3	25	2	AX784368	AX784368 Sequence
c	313	11.4	54.3	25	2	AX784369	AX784369 Sequence
c	314	11.4	54.3	25	2	AX784370	AX784370 Sequence
c	315	11.4	54.3	25	2	AX784371	AX784371 Sequence
	316	11.4	54.3	29	2	BD142693	BD142693 Polypepti
c	317	11.4	54.3	29	2	AR604846	AR604846 Sequence
c	318	11.4	54.3	29	2	AR639895	AR639895 Sequence
c	319	11.4	54.3	29	2	AR642490	AR642490 Sequence
c	320	11.4	54.3	30	2	AR090107	AR090107 Sequence
c	321	11.4	54.3	30	2	AR119849	AR119849 Sequence
c	322	11.4	54.3	30	2	AR197142	AR197142 Sequence
c	323	11.4	54.3	30	2	AR208293	AR208293 Sequence
c	324	11.4	54.3	30	2	AR259296	AR259296 Sequence
c	325	11.4	54.3	30	2	AX057103	AX057103 Sequence
	326	11.2	53.3	16	2	AR145777	AR145777 Sequence
c	327	11.2	53.3	17	2	CQ615761	CQ615761 Sequence
c	328	11.2	53.3	17	2	CQ615762	CQ615762 Sequence
c	329	11.2	53.3	17	2	CQ621637	CQ621637 Sequence
c	330	11.2	53.3	17	2	CQ621638	CQ621638 Sequence
c	331	11.2	53.3	17	2	AR456824	AR456824 Sequence
c	332	11.2	53.3	17	2	AR456825	AR456825 Sequence
c	333	11.2	53.3	17	2	AR462700	AR462700 Sequence
c	334	11.2	53.3	17	2	AR462701	AR462701 Sequence
c	335	11.2	53.3	17	2	AX215370	AX215370 Sequence
	336	11.2	53.3	17	2	AX499575	AX499575 Sequence
	337	11.2	53.3	17	2	AX499576	AX499576 Sequence
	338	11.2	53.3	18	2	E04956	E04956 DNA sequenc
c	339	11.2	53.3	18	2	AR568881	AR568881 Sequence
	340	11.2	53.3	19	2	AR145779	AR145779 Sequence
c	341	11.2	53.3	19	2	CS174540	CS174540 Sequence
	342	11.2	53.3	19	2	DD164838	DD164838 Methods o
	343	11.2	53.3	20	2	AR006815	AR006815 Sequence
	344	11.2	53.3	20	2	AR124137	AR124137 Sequence
	345	11.2	53.3	20	2	BD001975	BD001975 Process f
c	346	11.2	53.3	20	2	AR233322	AR233322 Sequence
	347	11.2	53.3	20	2	I61176	I61176 Sequence 1
	348	11.2	53.3	20	2	I71327	I71327 Sequence 11
	349	11.2	53.3	20	2	I78725	I78725 Sequence 1
	350	11.2	53.3	20	2	AR397483	AR397483 Sequence
	351	11.2	53.3	20	2	AR580148	AR580148 Sequence
	352	11.2	53.3	20	2	AR655751	AR655751 Sequence
	353	11.2	53.3	20	2	AR690289	AR690289 Sequence
c	354	11.2	53.3	20	2	AR690361	AR690361 Sequence
c	355	11.2	53.3	20	2	AX662807	AX662807 Sequence
c	356	11.2	53.3	20	2	AX663381	AX663381 Sequence
c	357	11.2	53.3	21	2	CQ812195	CQ812195 Sequence

c	358	11.2	53.3	21	2	CQ816641	CQ816641 Sequence
c	359	11.2	53.3	21	2	CS173581	CS173581 Sequence
	360	11.2	53.3	21	2	AR299058	AR299058 Sequence
	361	11.2	53.3	21	2	AX154421	AX154421 Sequence
	362	11.2	53.3	21	2	AX463116	AX463116 Sequence
	363	11.2	53.3	22	2	A64071	A64071 Sequence 8
	364	11.2	53.3	22	2	AR137393	AR137393 Sequence
c	365	11.2	53.3	22	2	BD010961	BD010961 Novel phy
c	366	11.2	53.3	22	2	BD010966	BD010966 Novel phy
c	367	11.2	53.3	22	2	BD093267	BD093267 Novel phy
c	368	11.2	53.3	22	2	BD093272	BD093272 Novel phy
c	369	11.2	53.3	22	2	I46608	I46608 Sequence 58
c	370	11.2	53.3	22	2	AX587360	AX587360 Sequence
c	371	11.2	53.3	23	2	CS080101	CS080101 Sequence
c	372	11.2	53.3	23	2	CS080102	CS080102 Sequence
c	373	11.2	53.3	24	2	CQ827779	CQ827779 Sequence
c	374	11.2	53.3	24	2	CQ827833	CQ827833 Sequence
c	375	11.2	53.3	24	2	AR595085	AR595085 Sequence
c	376	11.2	53.3	24	2	AX031335	AX031335 Sequence
	377	11.2	53.3	24	2	AX291993	AX291993 Sequence
	378	11.2	53.3	25	2	BD234585	BD234585 Glucoamyl
c	379	11.2	53.3	25	2	CQ618698	CQ618698 Sequence
c	380	11.2	53.3	25	2	CQ618699	CQ618699 Sequence
c	381	11.2	53.3	25	2	CQ626529	CQ626529 Sequence
c	382	11.2	53.3	25	2	CQ626530	CQ626530 Sequence
c	383	11.2	53.3	25	2	CQ626531	CQ626531 Sequence
c	384	11.2	53.3	25	2	CQ626532	CQ626532 Sequence
c	385	11.2	53.3	25	2	CQ626533	CQ626533 Sequence
c	386	11.2	53.3	25	2	CQ626534	CQ626534 Sequence
c	387	11.2	53.3	25	2	CQ626535	CQ626535 Sequence
c	388	11.2	53.3	25	2	CQ626536	CQ626536 Sequence
c	389	11.2	53.3	25	2	CQ626537	CQ626537 Sequence
c	390	11.2	53.3	25	2	CQ626538	CQ626538 Sequence
c	391	11.2	53.3	25	2	CQ862834	CQ862834 Sequence
	392	11.2	53.3	25	2	CS141191	CS141191 Sequence
	393	11.2	53.3	25	2	AR366526	AR366526 Sequence
c	394	11.2	53.3	25	2	AR459761	AR459761 Sequence
c	395	11.2	53.3	25	2	AR459762	AR459762 Sequence
c	396	11.2	53.3	25	2	AR467592	AR467592 Sequence
c	397	11.2	53.3	25	2	AR467593	AR467593 Sequence
c	398	11.2	53.3	25	2	AR467594	AR467594 Sequence
c	399	11.2	53.3	25	2	AR467595	AR467595 Sequence
c	400	11.2	53.3	25	2	AR467596	AR467596 Sequence
c	401	11.2	53.3	25	2	AR467597	AR467597 Sequence
c	402	11.2	53.3	25	2	AR467598	AR467598 Sequence
c	403	11.2	53.3	25	2	AR467599	AR467599 Sequence
c	404	11.2	53.3	25	2	AR467600	AR467600 Sequence
c	405	11.2	53.3	25	2	AR467601	AR467601 Sequence
	406	11.2	53.3	25	2	AX501572	AX501572 Sequence
	407	11.2	53.3	25	2	AX501573	AX501573 Sequence
	408	11.2	53.3	25	2	AX501574	AX501574 Sequence
	409	11.2	53.3	25	2	AX501575	AX501575 Sequence
	410	11.2	53.3	25	2	AX501576	AX501576 Sequence
	411	11.2	53.3	25	2	AX501577	AX501577 Sequence
	412	11.2	53.3	25	2	AX501578	AX501578 Sequence
	413	11.2	53.3	25	2	AX501579	AX501579 Sequence
	414	11.2	53.3	25	2	AX501580	AX501580 Sequence
	415	11.2	53.3	25	2	AX501581	AX501581 Sequence
c	416	11.2	53.3	25	2	AX665244	AX665244 Sequence
c	417	11.2	53.3	26	2	CQ797693	CQ797693 Sequence
c	418	11.2	53.3	26	2	CQ830688	CQ830688 Sequence

c	419	11.2	53.3	27	2	AR143779	AR143779 Sequence
c	420	11.2	53.3	27	2	AX172367	AX172367 Sequence
	421	11.2	53.3	27	2	AX598358	AX598358 Sequence
c	422	11.2	53.3	28	2	CQ794118	CQ794118 Sequence
c	423	11.2	53.3	28	2	CQ800087	CQ800087 Sequence
c	424	11.2	53.3	28	2	AX461501	AX461501 Sequence
c	425	11.2	53.3	30	2	AR061348	AR061348 Sequence
c	426	11.2	53.3	30	2	AR108247	AR108247 Sequence
	427	11.2	53.3	30	2	AR121366	AR121366 Sequence
c	428	11.2	53.3	30	2	AX960336	AX960336 Sequence
	429	11.2	53.3	30	2	AX960337	AX960337 Sequence
	430	11.2	53.3	30	2	CS097637	CS097637 Sequence
	431	11.2	53.3	30	2	CS141216	CS141216 Sequence
c	432	11.2	53.3	30	2	I16204	I16204 Sequence 30
	433	11.2	53.3	30	2	AR213275	AR213275 Sequence
c	434	11.2	53.3	30	2	AR263208	AR263208 Sequence
	435	11.2	53.3	30	2	I50889	I50889 Sequence 1
c	436	11.2	53.3	30	2	I66690	I66690 Sequence 30
c	437	11.2	53.3	30	2	I84784	I84784 Sequence 30
	438	11.2	53.3	30	2	AR652756	AR652756 Sequence
	439	11.2	53.3	30	2	AR703253	AR703253 Sequence
c	440	11.2	53.3	30	2	AR706528	AR706528 Sequence
c	441	11.2	53.3	30	2	AX793814	AX793814 Sequence
	442	11	52.4	17	2	AR158457	AR158457 Sequence
	443	11	52.4	17	2	AR158458	AR158458 Sequence
	444	11	52.4	17	2	AR158459	AR158459 Sequence
	445	11	52.4	17	2	AR158460	AR158460 Sequence
	446	11	52.4	17	2	AR158461	AR158461 Sequence
	447	11	52.4	17	2	AR158462	AR158462 Sequence
	448	11	52.4	17	2	AR158463	AR158463 Sequence
c	449	11	52.4	18	2	BD230647	BD230647 Total gen
	450	11	52.4	18	2	AR678392	AR678392 Sequence
c	451	11	52.4	19	2	CS178777	CS178777 Sequence
	452	11	52.4	19	2	DD200652	DD200652 RNA Inter
c	453	11	52.4	19	2	DD200837	DD200837 RNA Inter
c	454	11	52.4	19	2	AX448894	AX448894 Sequence
	455	11	52.4	19	2	AX608710	AX608710 Sequence
	456	11	52.4	20	2	AR036915	AR036915 Sequence
c	457	11	52.4	20	2	AR036916	AR036916 Sequence
	458	11	52.4	20	2	AR043155	AR043155 Sequence
c	459	11	52.4	20	2	AR043156	AR043156 Sequence
	460	11	52.4	20	2	AR050516	AR050516 Sequence
c	461	11	52.4	20	2	AR050517	AR050517 Sequence
c	462	11	52.4	20	2	AR050647	AR050647 Sequence
	463	11	52.4	20	2	AR051145	AR051145 Sequence
	464	11	52.4	20	2	AR074655	AR074655 Sequence
c	465	11	52.4	20	2	AR074656	AR074656 Sequence
	466	11	52.4	20	2	AR097250	AR097250 Sequence
c	467	11	52.4	20	2	AR097251	AR097251 Sequence
c	468	11	52.4	20	2	AR117696	AR117696 Sequence
c	469	11	52.4	20	2	AR130114	AR130114 Sequence
c	470	11	52.4	20	2	AR146673	AR146673 Sequence
	471	11	52.4	20	2	AR147482	AR147482 Sequence
c	472	11	52.4	20	2	AR147483	AR147483 Sequence
c	473	11	52.4	20	2	AR153774	AR153774 Sequence
	474	11	52.4	20	2	AR153776	AR153776 Sequence
c	475	11	52.4	20	2	AR156144	AR156144 Sequence
c	476	11	52.4	20	2	BD003394	BD003394 Methods a
	477	11	52.4	20	2	BD003396	BD003396 Methods a
	478	11	52.4	20	2	BD074169	BD074169 Examinati
c	479	11	52.4	20	2	BD074170	BD074170 Examinati

c 480	11	52.4	20	2	BD080248	BD080248 Nucleic a
c 481	11	52.4	20	2	BD080620	BD080620 Genetic p
482	11	52.4	20	2	BD137888	BD137888 Detection
c 483	11	52.4	20	2	BD137889	BD137889 Detection
c 484	11	52.4	20	2	BD138125	BD138125 Antisense
485	11	52.4	20	2	BD177739	BD177739 A method
c 486	11	52.4	20	2	BD178848	BD178848 Gene pane
487	11	52.4	20	2	BD206087	BD206087 Insulin-1
488	11	52.4	20	2	BD225297	BD225297 Strains i
489	11	52.4	20	2	BD243829	BD243829 Detection
c 490	11	52.4	20	2	BD243830	BD243830 Detection
491	11	52.4	20	2	BD272741	BD272741 Antisense
492	11	52.4	20	2	CQ813044	CQ813044 Sequence
c 493	11	52.4	20	2	CQ813045	CQ813045 Sequence
494	11	52.4	20	2	CQ830763	CQ830763 Sequence
c 495	11	52.4	20	2	CQ830764	CQ830764 Sequence
496	11	52.4	20	2	CQ848505	CQ848505 Sequence
c 497	11	52.4	20	2	CQ848506	CQ848506 Sequence
c 498	11	52.4	20	2	CS056378	CS056378 Sequence
c 499	11	52.4	20	2	CS080290	CS080290 Sequence
500	11	52.4	20	2	CS083153	CS083153 Sequence
c 501	11	52.4	20	2	I12482	I12482 Sequence 2
502	11	52.4	20	2	I12484	I12484 Sequence 4
503	11	52.4	20	2	I32095	I32095 Sequence 39
c 504	11	52.4	20	2	I32096	I32096 Sequence 40
c 505	11	52.4	20	2	I43103	I43103 Sequence 2
506	11	52.4	20	2	I43105	I43105 Sequence 4
c 507	11	52.4	20	2	I44634	I44634 Sequence 2
508	11	52.4	20	2	I44636	I44636 Sequence 4
509	11	52.4	20	2	AR200613	AR200613 Sequence
c 510	11	52.4	20	2	AR200614	AR200614 Sequence
511	11	52.4	20	2	AR217896	AR217896 Sequence
512	11	52.4	20	2	AR256571	AR256571 Sequence
c 513	11	52.4	20	2	AR256572	AR256572 Sequence
c 514	11	52.4	20	2	AR373761	AR373761 Sequence
515	11	52.4	20	2	I51705	I51705 Sequence 26
c 516	11	52.4	20	2	I51813	I51813 Sequence 2
517	11	52.4	20	2	I51815	I51815 Sequence 4
c 518	11	52.4	20	2	I74347	I74347 Sequence 2
519	11	52.4	20	2	I74349	I74349 Sequence 4
520	11	52.4	20	2	AR429570	AR429570 Sequence
c 521	11	52.4	20	2	AR429571	AR429571 Sequence
522	11	52.4	20	2	AR444843	AR444843 Sequence
523	11	52.4	20	2	AR531489	AR531489 Sequence
524	11	52.4	20	2	AR533938	AR533938 Sequence
525	11	52.4	20	2	AR534211	AR534211 Sequence
c 526	11	52.4	20	2	AR534212	AR534212 Sequence
c 527	11	52.4	20	2	AR576021	AR576021 Sequence
528	11	52.4	20	2	AR632486	AR632486 Sequence
c 529	11	52.4	20	2	AR632487	AR632487 Sequence
c 530	11	52.4	20	2	AR637326	AR637326 Sequence
531	11	52.4	20	2	AR649288	AR649288 Sequence
c 532	11	52.4	20	2	AR699693	AR699693 Sequence
533	11	52.4	20	2	AR761770	AR761770 Sequence
c 534	11	52.4	20	2	AX020630	AX020630 Sequence
c 535	11	52.4	20	2	AX037500	AX037500 Sequence
c 536	11	52.4	20	2	AX055805	AX055805 Sequence
c 537	11	52.4	20	2	AX108292	AX108292 Sequence
c 538	11	52.4	20	2	AX108394	AX108394 Sequence
539	11	52.4	20	2	AX195370	AX195370 Sequence
c 540	11	52.4	20	2	AX195371	AX195371 Sequence

c 541	11	52.4	20	2	AX224891	AX224891 Sequence
542	11	52.4	20	2	AX224892	AX224892 Sequence
c 543	11	52.4	20	2	AX269459	AX269459 Sequence
c 544	11	52.4	20	2	AX270990	AX270990 Sequence
545	11	52.4	20	2	AX375722	AX375722 Sequence
c 546	11	52.4	20	2	AX375723	AX375723 Sequence
c 547	11	52.4	20	2	AX418758	AX418758 Sequence
548	11	52.4	20	2	AX487846	AX487846 Sequence
c 549	11	52.4	20	2	AX538519	AX538519 Sequence
c 550	11	52.4	20	2	AX587505	AX587505 Sequence
551	11	52.4	20	2	AX592668	AX592668 Sequence
c 552	11	52.4	20	2	AX592669	AX592669 Sequence
c 553	11	52.4	20	2	AX642908	AX642908 Sequence
554	11	52.4	21	2	AR081662	AR081662 Sequence
555	11	52.4	21	2	AR145771	AR145771 Sequence
c 556	11	52.4	21	2	BD086377	BD086377 KCNQ2 and
557	11	52.4	21	2	BD266130	BD266130 Universal
c 558	11	52.4	21	2	CQ827335	CQ827335 Sequence
c 559	11	52.4	21	2	CS227096	CS227096 Sequence
560	11	52.4	21	2	I29127	I29127 Sequence 48
561	11	52.4	21	2	I42174	I42174 Sequence 48
c 562	11	52.4	21	2	AR216908	AR216908 Sequence
c 563	11	52.4	21	2	AR635170	AR635170 Sequence
564	11	52.4	22	2	DD159601	DD159601 A composi
c 565	11	52.4	22	2	AR224701	AR224701 Sequence
c 566	11	52.4	22	2	AR235606	AR235606 Sequence
c 567	11	52.4	22	2	AR715640	AR715640 Sequence
c 568	11	52.4	22	2	AX536233	AX536233 Sequence
569	11	52.4	23	2	CS014180	CS014180 Sequence
570	11	52.4	23	2	DD174428	DD174428 Repeat Se
c 571	11	52.4	23	2	AR229488	AR229488 Sequence
572	11	52.4	24	2	AX445669	AX445669 Sequence
573	11	52.4	25	2	E54606	E54606 Gene diagno
574	11	52.4	25	2	AX128291	AX128291 Sequence
575	11	52.4	25	2	AX207057	AX207057 Sequence
576	11	52.4	25	2	AX609110	AX609110 Sequence
c 577	11	52.4	25	2	AX663329	AX663329 Sequence
578	11	52.4	25	2	AX784323	AX784323 Sequence
579	11	52.4	26	2	AR090006	AR090006 Sequence
c 580	11	52.4	26	2	BD075439	BD075439 Secretory
c 581	11	52.4	26	2	BD172299	BD172299 Secreted
c 582	11	52.4	26	2	BD172618	BD172618 Secreted
c 583	11	52.4	26	2	BD172937	BD172937 Secreted
c 584	11	52.4	26	2	BD173256	BD173256 Secreted
c 585	11	52.4	26	2	BD175290	BD175290 Secretory
586	11	52.4	26	2	CQ848889	CQ848889 Sequence
c 587	11	52.4	26	2	CS084601	CS084601 Sequence
c 588	11	52.4	26	2	CS084815	CS084815 Sequence
589	11	52.4	26	2	AR197041	AR197041 Sequence
c 590	11	52.4	26	2	AR210303	AR210303 Sequence
591	11	52.4	26	2	AR259195	AR259195 Sequence
c 592	11	52.4	26	2	AR410668	AR410668 Sequence
c 593	11	52.4	26	2	AR439032	AR439032 Sequence
c 594	11	52.4	26	2	AR473052	AR473052 Sequence
c 595	11	52.4	26	2	AR475992	AR475992 Sequence
c 596	11	52.4	26	2	AR527038	AR527038 Sequence
c 597	11	52.4	26	2	AR566071	AR566071 Sequence
c 598	11	52.4	26	2	AR592089	AR592089 Sequence
c 599	11	52.4	26	2	AR604363	AR604363 Sequence
c 600	11	52.4	26	2	AR604949	AR604949 Sequence
c 601	11	52.4	26	2	AR613614	AR613614 Sequence

c	602	11	52.4	26	2	AR635785	AR635785 Sequence
c	603	11	52.4	26	2	AR650514	AR650514 Sequence
c	604	11	52.4	26	2	AR657455	AR657455 Sequence
c	605	11	52.4	26	2	AR720407	AR720407 Sequence
c	606	11	52.4	26	2	AR770966	AR770966 Sequence
c	607	11	52.4	26	2	AR771333	AR771333 Sequence
	608	11	52.4	26	2	AX376968	AX376968 Sequence
c	609	11	52.4	26	2	AX402731	AX402731 Sequence
c	610	11	52.4	26	2	AX402945	AX402945 Sequence
c	611	11	52.4	26	2	AX697496	AX697496 Sequence
c	612	11	52.4	26	2	AX839137	AX839137 Sequence
c	613	11	52.4	27	2	AR189520	AR189520 Sequence
c	614	11	52.4	27	2	AR190799	AR190799 Sequence
c	615	11	52.4	27	2	AX329327	AX329327 Sequence
	616	11	52.4	28	2	AX403028	AX403028 Sequence
	617	11	52.4	28	2	AX403031	AX403031 Sequence
c	618	11	52.4	29	2	BD105970	BD105970 Animal mo
c	619	11	52.4	29	2	CQ831719	CQ831719 Sequence
c	620	11	52.4	29	2	AR533400	AR533400 Sequence
c	621	11	52.4	30	2	AR120935	AR120935 Sequence
	622	11	52.4	30	2	AR120936	AR120936 Sequence
	623	11	52.4	30	2	AR120937	AR120937 Sequence
	624	11	52.4	30	2	AR120938	AR120938 Sequence
	625	11	52.4	30	2	AR120939	AR120939 Sequence
	626	11	52.4	30	2	AR120940	AR120940 Sequence
	627	11	52.4	30	2	AR120941	AR120941 Sequence
	628	11	52.4	30	2	AR120942	AR120942 Sequence
	629	11	52.4	30	2	AR120943	AR120943 Sequence
	630	11	52.4	30	2	AR120944	AR120944 Sequence
	631	11	52.4	30	2	AR120945	AR120945 Sequence
	632	11	52.4	30	2	AR120946	AR120946 Sequence
c	633	11	52.4	30	2	AR153051	AR153051 Sequence
	634	11	52.4	30	2	AR153052	AR153052 Sequence
	635	11	52.4	30	2	AR153055	AR153055 Sequence
	636	11	52.4	30	2	AR153056	AR153056 Sequence
	637	11	52.4	30	2	AR153057	AR153057 Sequence
	638	11	52.4	30	2	AR153061	AR153061 Sequence
	639	11	52.4	30	2	AR153062	AR153062 Sequence
	640	11	52.4	30	2	AR153063	AR153063 Sequence
	641	11	52.4	30	2	AR153067	AR153067 Sequence
	642	11	52.4	30	2	AR153068	AR153068 Sequence
	643	11	52.4	30	2	AR153069	AR153069 Sequence
	644	11	52.4	30	2	AR153070	AR153070 Sequence
c	645	11	52.4	30	2	AR153188	AR153188 Sequence
c	646	11	52.4	30	2	AR153189	AR153189 Sequence
	647	11	52.4	30	2	AR153190	AR153190 Sequence
c	648	11	52.4	30	2	AR153191	AR153191 Sequence
	649	11	52.4	30	2	AR163227	AR163227 Sequence
c	650	11	52.4	30	2	AR163330	AR163330 Sequence
	651	11	52.4	30	2	AR163331	AR163331 Sequence
c	652	11	52.4	30	2	BD064028	BD064028 Novel exp
c	653	11	52.4	30	2	BD134076	BD134076 Detection
	654	11	52.4	30	2	BD134077	BD134077 Detection
	655	11	52.4	30	2	BD134078	BD134078 Detection
	656	11	52.4	30	2	BD134079	BD134079 Detection
	657	11	52.4	30	2	BD134080	BD134080 Detection
	658	11	52.4	30	2	BD134081	BD134081 Detection
	659	11	52.4	30	2	BD134082	BD134082 Detection
	660	11	52.4	30	2	BD134083	BD134083 Detection
	661	11	52.4	30	2	BD134084	BD134084 Detection
	662	11	52.4	30	2	BD134085	BD134085 Detection

	663	11	52:4	30	2	BD134086	BD134086 Detection
	664	11	52.4	30	2	BD134087	BD134087 Detection
c	665	11	52.4	30	2	BD242932	BD242932 Method fo
	666	11	52.4	30	2	BD242933	BD242933 Method fo
	667	11	52.4	30	2	AR210901	AR210901 Sequence
	668	11	52.4	30	2	AR431652	AR431652 Sequence
c	669	11	52.4	30	2	AR533028	AR533028 Sequence
	670	11	52.4	30	2	AR533029	AR533029 Sequence
	671	11	52.4	30	2	AR533032	AR533032 Sequence
	672	11	52.4	30	2	AR533033	AR533033 Sequence
	673	11	52.4	30	2	AR533034	AR533034 Sequence
	674	11	52.4	30	2	AR533038	AR533038 Sequence
	675	11	52.4	30	2	AR533039	AR533039 Sequence
	676	11	52.4	30	2	AR533040	AR533040 Sequence
	677	11	52.4	30	2	AR533044	AR533044 Sequence
	678	11	52.4	30	2	AR533045	AR533045 Sequence
	679	11	52.4	30	2	AR533046	AR533046 Sequence
	680	11	52.4	30	2	AR533047	AR533047 Sequence
c	681	11	52.4	30	2	AR533165	AR533165 Sequence
c	682	11	52.4	30	2	AR533166	AR533166 Sequence
	683	11	52.4	30	2	AR533167	AR533167 Sequence
c	684	11	52.4	30	2	AR533168	AR533168 Sequence
	685	11	52.4	30	2	AX538294	AX538294 Sequence
c	686	11	52.4	30	2	AX611081	AX611081 Sequence
c	687	11	52.4	30	2	AX791147	AX791147 Sequence
c	688	10.8	51.4	17	2	CQ621639	CQ621639 Sequence
c	689	10.8	51.4	17	2	CQ621640	CQ621640 Sequence
c	690	10.8	51.4	17	2	AR286446	AR286446 Sequence
c	691	10.8	51.4	17	2	AR398436	AR398436 Sequence
c	692	10.8	51.4	17	2	AR462702	AR462702 Sequence
c	693	10.8	51.4	17	2	AR462703	AR462703 Sequence
c	694	10.8	51.4	17	2	AX498905	AX498905 Sequence
c	695	10.8	51.4	17	2	AX498906	AX498906 Sequence
c	696	10.8	51.4	17	2	AX498907	AX498907 Sequence
c	697	10.8	51.4	17	2	AX498908	AX498908 Sequence
	698	10.8	51.4	17	2	AX673758	AX673758 Sequence
	699	10.8	51.4	17	2	AX674338	AX674338 Sequence
	700	10.8	51.4	17	2	AX676124	AX676124 Sequence
	701	10.8	51.4	17	2	AX723820	AX723820 Sequence
c	702	10.8	51.4	17	2	AX725418	AX725418 Sequence
	703	10.8	51.4	17	2	AX731209	AX731209 Sequence
c	704	10.8	51.4	17	2	AX759256	AX759256 Sequence
	705	10.8	51.4	17	2	AX761835	AX761835 Sequence
	706	10.8	51.4	17	2	AX762988	AX762988 Sequence
c	707	10.8	51.4	17	2	AX782442	AX782442 Sequence
c	708	10.8	51.4	17	2	AX782443	AX782443 Sequence
c	709	10.8	51.4	17	2	AX782444	AX782444 Sequence
c	710	10.8	51.4	17	2	AX782445	AX782445 Sequence
	711	10.8	51.4	17	2	AX783428	AX783428 Sequence
	712	10.8	51.4	17	2	AX783429	AX783429 Sequence
	713	10.8	51.4	17	2	AX783430	AX783430 Sequence
	714	10.8	51.4	17	2	AX783431	AX783431 Sequence
c	715	10.8	51.4	17	2	AX783611	AX783611 Sequence
c	716	10.8	51.4	17	2	AX783612	AX783612 Sequence
c	717	10.8	51.4	17	2	AX783613	AX783613 Sequence
c	718	10.8	51.4	17	2	AX783614	AX783614 Sequence
c	719	10.8	51.4	18	2	A92625	A92625 Sequence 6
	720	10.8	51.4	18	2	AR096397	AR096397 Sequence
	721	10.8	51.4	18	2	AR138071	AR138071 Sequence
	722	10.8	51.4	18	2	BD217445	BD217445 Antisense
	723	10.8	51.4	18	2	BD226622	BD226622 Antisense

	724	10.8	51.4	18	2	BD231493	BD231493 Chromosom
c	725	10.8	51.4	18	2	BD231494	BD231494 Chromosom
	726	10.8	51.4	18	2	BD250527	BD250527 Identific
	727	10.8	51.4	18	2	AR631358	AR631358 Sequence
c	728	10.8	51.4	18	2	AR631359	AR631359 Sequence
	729	10.8	51.4	19	2	A95031	A95031 Sequence 37
c	730	10.8	51.4	19	2	AR063181	AR063181 Sequence
c	731	10.8	51.4	19	2	AR071377	AR071377 Sequence
c	732	10.8	51.4	19	2	AR119363	AR119363 Sequence
	733	10.8	51.4	19	2	BD088723	BD088723 A method
	734	10.8	51.4	19	2	BD088829	BD088829 A method
	735	10.8	51.4	19	2	CQ968426	CQ968426 Sequence
	736	10.8	51.4	19	2	CQ968427	CQ968427 Sequence
	737	10.8	51.4	19	2	CQ968428	CQ968428 Sequence
	738	10.8	51.4	19	2	CQ968429	CQ968429 Sequence
	739	10.8	51.4	19	2	CQ968430	CQ968430 Sequence
	740	10.8	51.4	19	2	CQ968431	CQ968431 Sequence
c	741	10.8	51.4	19	2	DD201263	DD201263 RNA Inter
	742	10.8	51.4	19	2	DD201386	DD201386 RNA Inter
	743	10.8	51.4	19	2	E38383	E38383 Binding par
	744	10.8	51.4	19	2	E39027	E39027 Nucleic aci
	745	10.8	51.4	19	2	AX022675	AX022675 Sequence
	746	10.8	51.4	19	2	AX110626	AX110626 Sequence
	747	10.8	51.4	19	8	AB068362	AB068362 Synthetic
	748	10.8	51.4	19	8	AB068364	AB068364 Synthetic
c	749	10.8	51.4	20	2	AR016537	AR016537 Sequence
c	750	10.8	51.4	20	2	AR021257	AR021257 Sequence
c	751	10.8	51.4	20	2	AR036811	AR036811 Sequence
c	752	10.8	51.4	20	2	AR117656	AR117656 Sequence
	753	10.8	51.4	20	2	BD167919	BD167919 Method of
c	754	10.8	51.4	20	2	CQ943370	CQ943370 Sequence
	755	10.8	51.4	20	2	CQ944282	CQ944282 Sequence
	756	10.8	51.4	20	2	CS065622	CS065622 Sequence
	757	10.8	51.4	20	2	CS065625	CS065625 Sequence
	758	10.8	51.4	20	2	CS065627	CS065627 Sequence
	759	10.8	51.4	20	2	CS065632	CS065632 Sequence
	760	10.8	51.4	20	2	CS065638	CS065638 Sequence
	761	10.8	51.4	20	2	CS065648	CS065648 Sequence
	762	10.8	51.4	20	2	CS065652	CS065652 Sequence
c	763	10.8	51.4	20	2	DD183048	DD183048 A set of
	764	10.8	51.4	20	2	DD207196	DD207196 REAGENTS
c	765	10.8	51.4	20	2	E06084	E06084 Oligonucleo
c	766	10.8	51.4	20	2	I30427	I30427 Sequence 8
c	767	10.8	51.4	20	2	I35671	I35671 Sequence 8
	768	10.8	51.4	20	2	AR255957	AR255957 Sequence
	769	10.8	51.4	20	2	AR281984	AR281984 Sequence
c	770	10.8	51.4	20	2	AR428773	AR428773 Sequence
	771	10.8	51.4	20	2	AR585406	AR585406 Sequence
c	772	10.8	51.4	20	2	AX294199	AX294199 Sequence
	773	10.8	51.4	20	2	AX295722	AX295722 Sequence
	774	10.8	51.4	20	2	AX662983	AX662983 Sequence
c	775	10.8	51.4	21	2	AR074284	AR074284 Sequence
c	776	10.8	51.4	21	2	BD056668	BD056668 Method to
c	777	10.8	51.4	21	2	BD091984	BD091984 Recombina
	778	10.8	51.4	21	2	BD091985	BD091985 Recombina
	779	10.8	51.4	21	2	CS069222	CS069222 Sequence
c	780	10.8	51.4	21	2	AX032646	AX032646 Sequence
c	781	10.8	51.4	21	2	AX154416	AX154416 Sequence
c	782	10.8	51.4	21	2	AX328130	AX328130 Sequence
c	783	10.8	51.4	22	2	AR009526	AR009526 Sequence
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SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491-1.max.rge.

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start

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                        GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on:          November 20, 2006, 05:46:55 ; Search time 2001 Seconds
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Searched:        6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters:     1796954

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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ALIGNMENTS

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DEFINITION   Sequence 1 from patent US 5969117.
ACCESSION   AR080883
VERSION   AR080883.1 GI:10007612
KEYWORDS   .
SOURCE   Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE   1 (bases 1 to 18)
  AUTHORS   Agrawal,S.
  TITLE   Modified protein kinase a-specific oligonucleotide
  JOURNAL   Patent: US 5969117-A 1 19-OCT-1999;
FEATURES   Location/Qualifiers
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   Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

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Qy        5 GCGUGCCUCCUCACUGG 21
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Db        1 GCGTGCCTCCTCACTGG 17
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LOCUS       AR080886                    18 bp     DNA      linear    PAT 31-AUG-2000
DEFINITION  Sequence 4 from patent US 5969117.
ACCESSION   AR080886
VERSION     AR080886.1  GI:10007615
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Agrawal,S.
  TITLE     Modified protein kinase a-specific oligonucleotide
  JOURNAL   Patent: US 5969117-A 4 19-OCT-1999;
FEATURES             Location/Qualifiers
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Db        1 GCGTGCCTCCTCACTGG 17
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DEFINITION  Sequence 6 from patent US 5969117.
ACCESSION   AR080888
VERSION     AR080888.1  GI:10007617
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Agrawal,S.
  TITLE     Modified protein kinase a-specific oligonucleotide
  JOURNAL   Patent: US 5969117-A 6 19-OCT-1999;
FEATURES             Location/Qualifiers
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Db              1 GCGTGCCTCCTCACTGG 17
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RESULT 4
BD107649

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LOCUS           BD107649                    18 bp    DNA      linear    PAT 18-SEP-2002
DEFINITION      Modified protein kinase A-specific oligonucloetides and methods of
                their use.
ACCESSION       BD107649
VERSION         BD107649.1  GI:23202467
KEYWORDS        JP 2002501370-A/1.
SOURCE          unidentified
  ORGANISM      unidentified
                unclassified sequences.
REFERENCE       1  (bases 1 to 18)
  AUTHORS       Agrawal,S.
  TITLE         Modified protein kinase A-specific oligonucloetides and methods of
                their use
  JOURNAL       Patent: JP 2002501370-A 1 15-JAN-2002;
                HYBRIDON INC
COMMENT         OS    Unidentified
                PN    JP 2002501370-A/1
                PD    15-JAN-2002
                PF    12-FEB-1998 JP 1998539567
                PR    12-MAR-1997 US    60/040740
                PI    SUDHIR AGRAWAL
                PC    C12N15/11,A61K31/70,C07H21/04
                CC    Strandedness: Single;
                CC    Topology: Linear;
                CC    Modified protein kinase A-specific oligonucloetides and   CC
                        methods of their
                CC    use
                FH    Key             Location/Qualifiers
                FT    source          1. .18
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ORIGIN

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  Best Local Similarity     76.5%;   Pred. No. 3.6e+02;
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Qy              5 GCGUGCCUCCUCACUGG 21
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Db              1 GCGTGCCTCCTCACTGG 17
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RESULT 5
BD107652

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DEFINITION      Modified protein kinase A-specific oligonucloetides and methods of
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ACCESSION       BD107652
VERSION         BD107652.1  GI:23202470
KEYWORDS        JP 2002501370-A/4.
SOURCE          unidentified
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                        unclassified sequences.
REFERENCE       1  (bases 1 to 18)
   AUTHORS      Agrawal,S.
   TITLE        Modified protein kinase A-specific oligonucloetides and methods of
                their use
   JOURNAL      Patent: JP 2002501370-A 4 15-JAN-2002;
                HYBRIDON INC
COMMENT         OS   Unidentified
                PN   JP 2002501370-A/4
                PD   15-JAN-2002
                PF   12-FEB-1998 JP 1998539567
                PR   12-MAR-1997 US    60/040740
                PI   SUDHIR AGRAWAL
                PC   C12N15/11,A61K31/70,C07H21/04
                CC   Strandedness: Single;
                CC   Topology: Linear;
                CC   Modified protein kinase A-specific oligonucloetides and  CC
                       methods of their
                CC   use
                FH   Key              Location/Qualifiers
                FT   source           1. .18
                FT                     /organism='Unidentified'.
FEATURES                 Location/Qualifiers
     source              1. .18
                         /organism="unidentified"
                         /mol_type="genomic DNA"
                         /db_xref="taxon:32644"
ORIGIN

   Query Match              81.0%;   Score 17;   DB 2;   Length 18;
   Best Local Similarity    76.5%;   Pred. No. 3.6e+02;
   Matches   13;  Conservative   4;  Mismatches   0;  Indels   0;  Gaps   0;

Qy        5 GCGUGCCUCCUCACUGG 21
            | | | : | | | : | | : | | | : | |
Db        1 GCGTGCCTCCTCACTGG 17


RESULT 6
BD107654
LOCUS         BD107654                 18 bp     DNA      linear    PAT 18-SEP-2002
DEFINITION    Modified protein kinase A-specific oligonucloetides and methods of
              their use.
ACCESSION     BD107654
VERSION       BD107654.1  GI:23202472
KEYWORDS      JP 2002501370-A/6.
SOURCE        unidentified
  ORGANISM    unidentified
              unclassified sequences.
REFERENCE     1  (bases 1 to 18)
   AUTHORS    Agrawal,S.
   TITLE      Modified protein kinase A-specific oligonucloetides and methods of
              their use
   JOURNAL    Patent: JP 2002501370-A 6 15-JAN-2002;
              HYBRIDON INC
COMMENT       OS   Unidentified
              PN   JP 2002501370-A/6
              PD   15-JAN-2002
              PF   12-FEB-1998 JP 1998539567
              PR   12-MAR-1997 US    60/040740
              PI   SUDHIR AGRAWAL
```

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           PC    C12N15/11,A61K31/70,C07H21/04
           CC    Strandedness: Single;
           CC    Topology: Linear;
           CC    Modified protein kinase A-specific oligonucloetides and   CC
                    methods of their
           CC    use
           FH    Key             Location/Qualifiers
           FT    source          1. .18
           FT                    /organism='Unidentified'.
FEATURES                 Location/Qualifiers
     source              1. .18
                         /organism="unidentified"
                         /mol_type="genomic DNA"
                         /db_xref="taxon:32644"
ORIGIN

  Query Match              81.0%;   Score 17;  DB 2;  Length 18;
  Best Local Similarity    76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy       5 GCGUGCCUCCUCACUGG 21
           |||:|||:||:|||:||
Db       1 GCGTGCCTCCTCACTGG 17



RESULT 7
BD192474
LOCUS       BD192474                 18 bp     DNA       linear    PAT 17-JUL-2003
DEFINITION  Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal.
ACCESSION   BD192474
VERSION     BD192474.1  GI:33002213
KEYWORDS    JP 2002510319-A/39.
SOURCE      synthetic construct
  ORGANISM  synthetic construct
            other sequences; artificial sequences.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Teng,C.L. and Hardee,G.
  TITLE     Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal
  JOURNAL   Patent: JP 2002510319-A 39 02-APR-2002;
            ISIS PHARMACEUTICALS INC
COMMENT     OS    Artificial Sequence
            PN    JP 2002510319-A/39
            PD    02-APR-2002
            PF    01-JUL-1998 JP 1999507295
            PR    01-JUL-1997 US    08/886829
            PI    CHING LEOU TENG,GREG HARDEE
            PC    C12Q1/68,A61K9/127,A61K48/00,C07H21/04
            CC    Description of Artificial Sequence: Novel Sequence FH   Key
                     Location/Qualifiers.
FEATURES                 Location/Qualifiers
     source              1. .18
                         /organism="synthetic construct"
                         /mol_type="genomic DNA"
                         /db_xref="taxon:32630"
ORIGIN

  Query Match              81.0%;   Score 17;  DB 2;  Length 18;
  Best Local Similarity    76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17
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RESULT 8
BD192475
LOCUS   BD192475   18 bp   DNA   linear   PAT 17-JUL-2003
DEFINITION Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal.
ACCESSION   BD192475
VERSION   BD192475.1 GI:33002214
KEYWORDS   JP 2002510319-A/40.
SOURCE   synthetic construct
  ORGANISM synthetic construct
            other sequences; artificial sequences.
REFERENCE   1 (bases 1 to 18)
  AUTHORS   Teng,C.L. and Hardee,G.
  TITLE   Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal
  JOURNAL   Patent: JP 2002510319-A 40 02-APR-2002;
            ISIS PHARMACEUTICALS INC
COMMENT   OS   Artificial Sequence
            PN   JP 2002510319-A/40
            PD   02-APR-2002
            PF   01-JUL-1998 JP 1999507295
            PR   01-JUL-1997 US   08/886829
            PI   CHING LEOU TENG,GREG HARDEE
            PC   C12Q1/68,A61K9/127,A61K48/00,C07H21/04
            CC   Description of Combined DNA/RNA Molecule:
            U at positions 4 and
            CC   15 are RNA
            CC   Description of Artificial Sequence: Novel Sequence FH   Key
                        Location/Qualifiers.
FEATURES   Location/Qualifiers
     source   1. .18
                      /organism="synthetic construct"
                      /mol_type="genomic DNA"
                      /db_xref="taxon:32630"
ORIGIN

  Query Match   81.0%;   Score 17; DB 2; Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
    Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17
```

RESULT 9
BD192476
LOCUS       BD192476                    18 bp    DNA      linear    PAT 17-JUL-2003
DEFINITION  Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal.
ACCESSION   BD192476
VERSION     BD192476.1  GI:33002215
KEYWORDS    JP 2002510319-A/41.
SOURCE      synthetic construct
  ORGANISM  synthetic construct

```
                    other sequences; artificial sequences.
REFERENCE       1  (bases 1 to 18)
   AUTHORS      Teng,C.L. and Hardee,G.
   TITLE        Compositions and methods for the delivery of oligonucleotides via
                the alimentary canal
   JOURNAL      Patent: JP 2002510319-A 41 02-APR-2002;
                ISIS PHARMACEUTICALS INC
COMMENT         OS   Artificial Sequence
                PN   JP 2002510319-A/41
                PD   02-APR-2002
                PF   01-JUL-1998 JP 1999507295
                PR   01-JUL-1997 US   08/886829
                PI   CHING LEOU TENG,GREG HARDEE
                PC   C12Q1/68,A61K9/127,A61K48/00,C07H21/04
                CC   Description of Combined DNA/RNA Molecule:
                U at positions 8 and
                CC             11 are RNA
                CC   Description of Artificial Sequence: Novel Sequence FH    Key
                      Location/Qualifiers.
FEATURES              Location/Qualifiers
     source          1. .18
                     /organism="synthetic construct"
                     /mol_type="genomic DNA"
                     /db_xref="taxon:32630"
ORIGIN


  Query Match               81.0%;   Score 17;  DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative     4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy         5 GCGUGCCUCCUCACUGG 21
             |||:|||:||:|||:||
Db         1 GCGTGCCTCCTCACTGG 17



RESULT 10
AR208385
LOCUS          AR208385                     18 bp    DNA       linear    PAT 20-JUN-2002
DEFINITION     Sequence 1 from patent US 6383752.
ACCESSION      AR208385
VERSION        AR208385.1  GI:21509526
KEYWORDS       .
SOURCE         Unknown.
   ORGANISM    Unknown.
               Unclassified.
REFERENCE      1  (bases 1 to 18)
   AUTHORS     Agrawal,S. and Kandimalla,E.R.
   TITLE       Pseudo-cyclic oligonucleobases
   JOURNAL     Patent: US 6383752-A 1 07-MAY-2002;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
ORIGIN


  Query Match               81.0%;   Score 17;  DB 2;  Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative     4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy         5 GCGUGCCUCCUCACUGG 21
             |||:|||:||:|||:||
```

```
Db         1 GCGTGCCTCCTCACTGG 17
```

RESULT 11
I49062
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LOCUS        I49062                    18 bp    DNA      linear    PAT 07-OCT-1997
DEFINITION   Sequence 2 from patent US 5627158.
ACCESSION    I49062
VERSION      I49062.1  GI:2467525
KEYWORDS     .
SOURCE       Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE    1  (bases 1 to 18)
  AUTHORS    Cho-Chung,Y.S.
  TITLE      Antisense oligonucleotides of human regulatory subunit
             RI-.sub. .alpha. of camp dependent protein kinases for the treatment
             of cancer
  JOURNAL    Patent: US 5627158-A 2 06-MAY-1997;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
ORIGIN
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```
  Query Match              81.0%;  Score 17;  DB 2;  Length 18;
  Best Local Similarity    76.5%;  Pred. No. 3.6e+02;
  Matches    13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy         5 GCGUGCCUCCUCACUGG 21
             |||:|||:||:|||:||
Db         1 GCGTGCCTCCTCACTGG 17
```

RESULT 12
I76423
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LOCUS        I76423                    18 bp    DNA      linear    PAT 03-APR-1998
DEFINITION   Sequence 2 from patent US 5691317.
ACCESSION    I76423
VERSION      I76423.1  GI:3012577
KEYWORDS     .
SOURCE       Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE    1  (bases 1 to 18)
  AUTHORS    Cho-Chung,Y.S.
  TITLE      Antisense oligonucleotides of human regulatory subunit RI-alpha of
             cAMP dependent protein kinases for the treatment of cancer
  JOURNAL    Patent: US 5691317-A 2 25-NOV-1997;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
ORIGIN
```

```
  Query Match              81.0%;  Score 17;  DB 2;  Length 18;
  Best Local Similarity    76.5%;  Pred. No. 3.6e+02;
  Matches    13;  Conservative    4;  Mismatches    0;  Indels   .0;  Gaps    0;
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```
Qy         5 GCGUGCCUCCUCACUGG 21
             |||:|||:||:|||:||
```

Db   1 GCGTGCCTCCTCACTGG 17

RESULT 13
AR430158
LOCUS   AR430158   18 bp   DNA   linear   PAT 18-DEC-2003
DEFINITION Sequence 20 from patent US 6645943.
ACCESSION   AR430158
VERSION   AR430158.1 GI:40190830
KEYWORDS   .
SOURCE   Unknown.
  ORGANISM Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
  AUTHORS   Agrawal,S., Diasio,R.B. and Zhang,R.
  TITLE   Method of down-regulating gene expression
  JOURNAL   Patent: US 6645943-A 20 11-NOV-2003;
            Hybridon, Inc.; Cambridge, MA
FEATURES   Location/Qualifiers
     source   1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN

  Query Match   81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 14
AR577323
LOCUS   AR577323   18 bp   DNA   linear   PAT 14-DEC-2004
DEFINITION Sequence 39 from patent US 6777544.
ACCESSION   AR577323
VERSION   AR577323.1 GI:56579857
KEYWORDS   .
SOURCE   Unknown.
  ORGANISM Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 18)
  AUTHORS   Uhlmann,E., Breipohl,G. and Will,D.W.
  TITLE   Polyamide nucleic acid derivatives and agents and processes for
            preparing them
  JOURNAL   Patent: US 6777544-A 39 17-AUG-2004;
            Aventis Pharma Deutschland GmbH; Frankfurt;
            DEX;
FEATURES   Location/Qualifiers
     source   1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN

  Query Match   81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21

```
                     |||:|||:||:|||:||
Db            1 GCGTGCCTCCTCACTGG 17
```

RESULT 15
AR653982
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LOCUS       AR653982                    18 bp    DNA       linear    PAT 13-JUN-2005
DEFINITION  Sequence 39 from patent US 6887906.
ACCESSION   AR653982
VERSION     AR653982.1  GI:67584849
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Teng,C.-L. and Hardee,G.
  TITLE     Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal
  JOURNAL   Patent: US 6887906-A 39 03-MAY-2005;
            ISISPharmaceuticals, Inc.; Carlsbad, CA
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN

  Query Match             81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches    13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy           5 GCGUGCCUCCUCACUGG 21
                     |||:|||:||:|||:||
Db           1 GCGTGCCTCCTCACTGG 17
```

RESULT 16
AR653983
```
LOCUS       AR653983                    18 bp    DNA       linear    PAT 13-JUN-2005
DEFINITION  Sequence 40 from patent US 6887906.
ACCESSION   AR653983
VERSION     AR653983.1  GI:67584852
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Teng,C.-L. and Hardee,G.
  TITLE     Compositions and methods for the delivery of oligonucleotides via
            the alimentary canal
  JOURNAL   Patent: US 6887906-A 40 03-MAY-2005;
            ISISPharmaceuticals, Inc.; Carlsbad, CA
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN

  Query Match             81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches    13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy           5 GCGUGCCUCCUCACUGG 21
               |||:|||:||:|||:||
Db           1 GCGTGCCTCCTCACTGG 17
```

RESULT 17
AR653984
```
LOCUS         AR653984                  18 bp    DNA      linear   PAT 13-JUN-2005
DEFINITION    Sequence 41 from patent US 6887906.
ACCESSION     AR653984
VERSION       AR653984.1  GI:67584853
KEYWORDS      .
SOURCE        Unknown.
  ORGANISM    Unknown.
              Unclassified.
REFERENCE     1  (bases 1 to 18)
  AUTHORS     Teng,C.-L. and Hardee,G.
  TITLE       Compositions and methods for the delivery of oligonucleotides via
              the alimentary canal
  JOURNAL     Patent: US 6887906-A 41 03-MAY-2005;
              ISISPharmaceuticals, Inc.; Carlsbad, CA
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN
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  Query Match             81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative   4;  Mismatches   0;  Indels   0;  Gaps   0;
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```
Qy           5 GCGUGCCUCCUCACUGG 21
               |||:|||:||:|||:||
Db           1 GCGTGCCTCCTCACTGG 17
```

RESULT 18
AR680528
```
LOCUS         AR680528                  18 bp    DNA      linear   PAT 12-SEP-2005
DEFINITION    Sequence 39 from patent US 6905820.
ACCESSION     AR680528
VERSION       AR680528.1  GI:74462297
KEYWORDS      .
SOURCE        Unknown.
  ORGANISM    Unknown.
              Unclassified.
REFERENCE     1  (bases 1 to 18)
  AUTHORS     Uhlmann,E., Breipohl,G. and Will,D.W.
  TITLE       Polyamide nucleic acid derivatives, and agents and processes for
              preparing them
  JOURNAL     Patent: US 6905820-A 39 14-JUN-2005;
              Aventis Pharma Deutschland GmbH; Frankfurt;
              DEX;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN
```

```
  Query Match             81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
```

```
     Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        5 GCGUGCCUCCUCACUGG 21
            ||| : ||| : || : ||| : ||
Db        1 GCGTGCCTCCTCACTGG 17
```

RESULT 19
AR714221
```
LOCUS       AR714221                18 bp    DNA      linear    PAT 21-SEP-2005
DEFINITION  Sequence 20 from patent US 6936593.
ACCESSION   AR714221
VERSION     AR714221.1  GI:76005571
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Agrawal,S., Diasio,R.B. and Zhang,R.
  TITLE     Method of down-regulating gene expression
  JOURNAL   Patent: US 6936593-A 20 30-AUG-2005;
            Hybridon, Inc.; Cambridge, MA
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="genomic DNA"
ORIGIN
```

```
  Query Match           81.0%;  Score 17;  DB 2;  Length 18;
  Best Local Similarity  76.5%;  Pred. No. 3.6e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        5 GCGUGCCUCCUCACUGG 21
            ||| : ||| : || : ||| : ||
Db        1 GCGTGCCTCCTCACTGG 17
```

RESULT 20
AX030046
```
LOCUS       AX030046                18 bp    DNA      linear    PAT 16-SEP-2000
DEFINITION  Sequence 2 from Patent EP0972831.
ACCESSION   AX030046
VERSION     AX030046.1  GI:10190268
KEYWORDS    .
SOURCE      unidentified
  ORGANISM  unidentified
            unclassified sequences.
REFERENCE   1
  AUTHORS   Yoon,S.C.
  TITLE     Antisense oligonucleotides against the alpha regulatory subunit of
            the camp dependent-protein kinase for treatment of cancer
  JOURNAL   Patent: EP 0972831-A 2 19-JAN-2000;
            YOON S CHO CHUNG (US)
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unidentified"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:32644"
                     /note="Antisense sequence corresponding to the 8th-13th
                     codon for RI("
ORIGIN
```

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Query Match                  81.0%;   Score 17;   DB 2;   Length 18;
Best Local Similarity    76.5%;   Pred. No. 3.6e+02;
Matches   13;   Conservative    4;   Mismatches    0;   Indels    0;   Gaps    0;


Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
```

RESULT 21
AX081371
```
LOCUS        AX081371                18 bp    DNA        linear    PAT 27-FEB-2001
DEFINITION   Sequence 50 from Patent WO0108707.
ACCESSION    AX081371
VERSION      AX081371.1  GI:13170213
KEYWORDS     .
SOURCE       synthetic construct
  ORGANISM   synthetic construct
             other sequences; artificial sequences.
REFERENCE    1
  AUTHORS    Uhlmann,E., Greiner,B., Unger,E., Gothe,G. and Schwerdel,M.
  TITLE      Conjugates and methods for the production thereof, and their use
             for transporting molecules via biological membranes
  JOURNAL    Patent: WO 0108707-A 50 08-FEB-2001;
             Aventis Pharma Deutschland GmbH (DE)
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="synthetic construct"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:32630"
                     /note="Oligonucleotide"
ORIGIN
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Query Match                  81.0%;   Score 17;   DB 2;   Length 18;
Best Local Similarity    76.5%;   Pred. No. 3.6e+02;
Matches   13;   Conservative    4;   Mismatches    0;   Indels    0;   Gaps    0;


Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
```

RESULT 22
AX283201
```
LOCUS        AX283201                18 bp    DNA        linear    PAT 20-NOV-2001
DEFINITION   Sequence 39 from Patent WO0179216.
ACCESSION    AX283201
VERSION      AX283201.1  GI:17044082
KEYWORDS     .
SOURCE       synthetic construct
  ORGANISM   synthetic construct
             other sequences; artificial sequences.
REFERENCE    1
  AUTHORS    Uhlmann,E., Breipohl,G. and Will,D.W.
  TITLE      Polyamide nucleic acid derivatives, agents and methods for
             producing them
  JOURNAL    Patent: WO 0179216-A 39 25-OCT-2001;
             Aventis Pharma Deutschland GmbH (DE)
FEATURES             Location/Qualifiers
     source          1. .18
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                        /organism="synthetic construct"
                        /mol_type="unassigned DNA"
                        /db_xref="taxon:32630"
                        /note="Beschreibung der kuenstlichen
                        Sequenz:Oligonukleotide"
ORIGIN

  Query Match                 81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17


RESULT 23
AX283269
LOCUS       AX283269                  18 bp    DNA       linear   PAT 20-NOV-2001
DEFINITION  Sequence 33 from Patent WO0179249.
ACCESSION   AX283269
VERSION     AX283269.1  GI:17044150
KEYWORDS    .
SOURCE      synthetic construct
  ORGANISM  synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
  AUTHORS   Uhlmann,E., Breipohl,G. and Will,D.W.
  TITLE     Polyamide nucleic acid derivatives, agents and methods for
            producing the same
  JOURNAL   Patent: WO 0179249-A 33 25-OCT-2001;
            Aventis Pharma Deutschland GmbH (DE)
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="synthetic construct"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:32630"
                     /note="Beschreibung der kuenstlichen Sequenz:
                     Oligonukleotide"
ORIGIN

  Query Match                 81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 3.6e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17


RESULT 24
AR170389
LOCUS       AR170389                  20 bp    DNA       linear   PAT 17-DEC-2001
DEFINITION  Sequence 15 from patent US 6291438.
ACCESSION   AR170389
VERSION     AR170389.1  GI:17908348
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 20)
```

```
     AUTHORS   Wang,J.H.
     TITLE     Antiviral anticancer poly-substituted phenyl derivatized
               oligoribonucleotides and methods for their use
     JOURNAL   Patent: US 6291438-A 15 18-SEP-2001;
  FEATURES               Location/Qualifiers
       source            1. .20
                         /organism="unknown"
                         /mol_type="unassigned DNA"
  ORIGIN

     Query Match              81.0%;   Score 17;   DB 2;   Length 20;
     Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
     Matches   13;   Conservative    4;   Mismatches    0;   Indels    0;   Gaps    0;

  Qy        5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
  Db        3 GCGTGCCTCCTCACTGG 19
```

```
  RESULT 25
  AR170392/c
  LOCUS     AR170392                  20 bp   DNA      linear   PAT 17-DEC-2001
  DEFINITION Sequence 18 from patent US 6291438.
  ACCESSION  AR170392
  VERSION    AR170392.1  GI:17908351
  KEYWORDS   .
  SOURCE     Unknown.
    ORGANISM Unknown.
             Unclassified.
  REFERENCE  1  (bases 1 to 20)
    AUTHORS  Wang,J.H.
    TITLE    Antiviral anticancer poly-substituted phenyl derivatized
             oligoribonucleotides and methods for their use
    JOURNAL  Patent: US 6291438-A 18 18-SEP-2001;
  FEATURES              Location/Qualifiers
      source            1. .20
                        /organism="unknown"
                        /mol_type="unassigned DNA"
  ORIGIN

     Query Match              81.0%;   Score 17;   DB 2;   Length 20;
     Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
     Matches   13;   Conservative    4;   Mismatches    0;   Indels    0;   Gaps    0;

  Qy        5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
  Db       20 GCGTGCCTCCTCACTGG 4
```

```
  RESULT 26
  AR208390
  LOCUS     AR208390                  23 bp   DNA      linear   PAT 20-JUN-2002
  DEFINITION Sequence 6 from patent US 6383752.
  ACCESSION  AR208390
  VERSION    AR208390.1  GI:21509532
  KEYWORDS   .
  SOURCE     Unknown.
    ORGANISM Unknown.
             Unclassified.
  REFERENCE  1  (bases 1 to 23)
    AUTHORS  Agrawal,S. and Kandimalla,E.R.
```

```
TITLE       Pseudo-cyclic oligonucleobases
JOURNAL     Patent: US 6383752-A 6 07-MAY-2002;
FEATURES                Location/Qualifiers
    source              1. .23
                        /organism="unknown"
                        /mol_type="unassigned DNA"
ORIGIN
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Query Match              81.0%;   Score 17;  DB 2;  Length 23;
Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
```

```
RESULT 27
AR208394
LOCUS       AR208394                  23 bp    DNA      linear   PAT 20-JUN-2002
DEFINITION  Sequence 10 from patent US 6383752.
ACCESSION   AR208394
VERSION     AR208394.1  GI:21509537
KEYWORDS    ..
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 23)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 10 07-MAY-2002;
FEATURES                Location/Qualifiers
    source              1. .23
                        /organism="unknown"
                        /mol_type="unassigned DNA"
ORIGIN
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Query Match              81.0%;   Score 17;  DB 2;  Length 23;
Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
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```
Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
```

```
RESULT 28
AR208388
LOCUS       AR208388                  24 bp    DNA      linear   PAT 20-JUN-2002
DEFINITION  Sequence 4 from patent US 6383752.
ACCESSION   AR208388
VERSION     AR208388.1  GI:21509529
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 24)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 4 07-MAY-2002;
FEATURES                Location/Qualifiers
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        source          1. .24
                        /organism="unknown"
                        /mol_type="unassigned DNA"
ORIGIN

  Query Match               81.0%;   Score 17;   DB 2;   Length 24;
  Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
  Matches    13;  Conservative     4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17


RESULT 29
AR208391
LOCUS       AR208391                    24 bp     DNA       linear    PAT 20-JUN-2002
DEFINITION  Sequence 7 from patent US 6383752.
ACCESSION   AR208391
VERSION     AR208391.1  GI:21509533
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 24)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 7 07-MAY-2002;
FEATURES             Location/Qualifiers
     source          1. .24
                     /organism="unknown"
                     /mol_type="unassigned DNA"
ORIGIN

  Query Match               81.0%;   Score 17;   DB 2;   Length 24;
  Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
  Matches    13;  Conservative     4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17


RESULT 30
AR208392
LOCUS       AR208392                    25 bp     DNA       linear    PAT 20-JUN-2002
DEFINITION  Sequence 8 from patent US 6383752.
ACCESSION   AR208392
VERSION     AR208392.1  GI:21509534
KEYWORDS.   .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 25)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 8 07-MAY-2002;
FEATURES             Location/Qualifiers
     source          1. .25
                     /organism="unknown"
                     /mol_type="unassigned DNA"
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ORIGIN

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  Query Match              81.0%;   Score 17;   DB 2;   Length 25;
  Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
  Matches   13;  Conservative    4;  Mismatches    0;   Indels    0;   Gaps    0;

Qy         5 GCGUGCCUCCUCACUGG 21
             ||| : ||| : || : ||| : ||
Db         1 GCGTGCCTCCTCACTGG 17
```

RESULT 31
AR208395
```
LOCUS       AR208395                  25 bp   DNA      linear    PAT 20-JUN-2002
DEFINITION  Sequence 11 from patent US 6383752.
ACCESSION   AR208395
VERSION     AR208395.1  GI:21509538
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 25)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 11 07-MAY-2002;
FEATURES             Location/Qualifiers
     source          1. .25
                     /organism="unknown"
                     /mol_type="unassigned DNA"
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ORIGIN

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  Query Match              81.0%;   Score 17;   DB 2;   Length 25;
  Best Local Similarity    76.5%;   Pred. No. 3.5e+02;
  Matches   13;  Conservative    4;  Mismatches    0;   Indels    0;   Gaps    0;

Qy         5 GCGUGCCUCCUCACUGG 21
             ||| : ||| : || : ||| : ||
Db         1 GCGTGCCTCCTCACTGG 17
```

RESULT 32
AR208393
```
LOCUS       AR208393                  26 bp   DNA      linear    PAT 20-JUN-2002
DEFINITION  Sequence 9 from patent US 6383752.
ACCESSION   AR208393
VERSION     AR208393.1  GI:21509536
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 26)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 9 07-MAY-2002;
FEATURES             Location/Qualifiers
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                     /organism="unknown"
                     /mol_type="unassigned DNA"
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ORIGIN

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  Query Match              81.0%;   Score 17;   DB 2;   Length 26;
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```
       Best Local Similarity   76.5%;   Pred. No. 3.5e+02;
       Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 GCGUGCCUCCUCACUGG 21
              ||| : ||| : || : ||| : ||
Db          1 GCGTGCCTCCTCACTGG 17
```

```
RESULT 33
E13481
LOCUS         E13481                   25 bp     DNA      linear    PAT 27-APR-1998
DEFINITION    PCR primer for detecting mRNA which encode human enkephalin.
ACCESSION     E13481
VERSION       E13481.1  GI:3252286
KEYWORDS      JP 1997187299-A/43.
SOURCE        unidentified
  ORGANISM    unidentified
              unclassified sequences.
REFERENCE     1  (bases 1 to 25)
  AUTHORS     Kimoto,Y.
  TITLE       PRIMER FOR PCR
  JOURNAL     Patent: JP 1997187299-A 43 22-JUL-1997;
              NIPPON BIO SERAPII KK
COMMENT       OS    None
              OC    Artificial sequences.
              PN    JP 1997187299-A/43
              PD    22-JUL-1997
              PF    05-JAN-1996 JP 1996027222
              PI    KIMOTO YASUHIKO
              PC    C12Q1/68,C07H21/04,C12N15/09;
              CC    strandedness: Single;
              CC    topology: Linear;
              CC    hypothetical: No;
              CC    anti-sense: No;
              FH    Key              Location/Qualifiers
              FH
              FT    source           1. .25
              FT                     /organism='Artificial sequences' FT
              misc_feature    1. .25
              FT                     /note='PCR primer,ENK-1'.
FEATURES           Location/Qualifiers
     source        1. .25
                   /organism="unidentified"
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                   /db_xref="taxon:32644"
ORIGIN

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  Matches   12;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GGCUGCGUGCCUCCUCA 17
              ||| : ||  : ||| : || : ||
Db          7 GGCTGCCTGCCTCCTCA 23
```

```
RESULT 34
AR241029/c
LOCUS         AR241029                 20 bp     DNA      linear    PAT 20-DEC-2002
DEFINITION    Sequence 100 from patent US 6468795.
ACCESSION     AR241029
```

```
VERSION      AR241029.1  GI:27286246
KEYWORDS     .
SOURCE       Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE    1  (bases 1 to 20)
  AUTHORS    Watt,A.T.
  TITLE      Antisense modulation of Apaf-1 expression
  JOURNAL    Patent: US 6468795-A 100 22-OCT-2002;
             ISIS Pharmaceuticals, Inc.; Carlsbad, CA;
             WOX;
FEATURES             Location/Qualifiers
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ORIGIN
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  Best Local Similarity    61.1%;   Pred. No. 7.2e+03;
  Matches    11;  Conservative    5;  Mismatches   2;  Indels   0; Gaps    0;
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```
Qy       3 CUGCGUGCCUCCUCACUG 20
           |:| |:|||:||:|| :|
Db      19 CTGAGTGCCTCCTCAGTG 2
```

```
RESULT 35
BD187240/c
LOCUS        BD187240                22 bp    DNA      linear    PAT 17-JUN-2003
DEFINITION   Novel ligand and its DNA.
ACCESSION    BD187240
VERSION      BD187240.1  GI:31879529
KEYWORDS     WO 02102847-A/57.
SOURCE       synthetic construct
  ORGANISM   synthetic construct
             other sequences; artificial sequences.
REFERENCE    1  (bases 1 to 22)
  AUTHORS    Hinuma,S., Fujii,R., Fukusumi,S., Mori,M. and Yoshida,H.
  TITLE      Novel ligand and its DNA
  JOURNAL    Patent: WO 02102847-A 57 27-DEC-2002;
             TAKEDA CHEMICAL INDUSTRIES LTD,SHUJI HINUMA,RYO FUJII, SHOJI
             FUKUSUMI, MASAAKI MORI,HIROMI YOSHIDA
COMMENT      OS   Artificial Sequence
             PN   WO 02102847-A/57
             PD   27-DEC-2002
             PF   13-JUN-2002 WO 2002JP005915
             PR   14-JUN-2001 JP 01P   180562,17-JUL-2001 JP 01P   216773 PR
             26-NOV-2001 JP 01P   359826,28-DEC-2001 JP 01P   401019 PR
             28-MAY-2002 JP 02P   154533
             PI   SHUJI HINUMA,RYO FUJII,SHOJI FUKUSUMI,MASAAKI MORI,HIROMI  PI
              YOSHIDA
             PC   C07K14/47,C07K14/705,C12N15/12,C12N1/21,C12N1/19,C12N5/10, PC
              C12P21/02,
             PC   C07K16/18,C07K16/28,C12Q1/68,A61K38/17,A61K39/395,G01N33/53,
             PC   G01N33/577
             CC   Primer
             FH   Key             Location/Qualifiers
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             FT                   /organism='Artificial Sequence'.
FEATURES             Location/Qualifiers
     source          1. .22
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        ORIGIN

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        Qy          1 GGCUGCGUGCCUCCUC 16
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        Db         17 GGCTGTGTGCCTCCTC 2
```

RESULT 36
AR208389

```
LOCUS       AR208389                  23 bp    DNA       linear   PAT 20-JUN-2002
DEFINITION  Sequence 5 from patent US 6383752.
ACCESSION   AR208389
VERSION     AR208389.1  GI:21509531
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 23)
  AUTHORS   Agrawal,S. and Kandimalla,E.R.
  TITLE     Pseudo-cyclic oligonucleobases
  JOURNAL   Patent: US 6383752-A 5 07-MAY-2002;
FEATURES             Location/Qualifiers
     source          1. .23
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                     /mol_type="unassigned DNA"
ORIGIN

   Query Match              68.6%;   Score 14.4;  DB 2;   Length 23;
   Best Local Similarity    75.0%;   Pred. No. 1.2e+04;
   Matches    12;  Conservative   3;  Mismatches   1;  Indels   0;  Gaps   0;

Qy          5 GCGUGCCUCCUCACUG 20
              |||:|||:||:||| |
Db          1 GCGTGCCTCCTCACGG 16
```

RESULT 37
AR080884

```
LOCUS       AR080884                  18 bp    DNA       linear   PAT 31-AUG-2000
DEFINITION  Sequence 2 from patent US 5969117.
ACCESSION   AR080884
VERSION     AR080884.1  GI:10007613
KEYWORDS    .
SOURCE      Unknown.
  ORGANISM  Unknown.
            Unclassified.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Agrawal,S.
  TITLE     Modified protein kinase a-specific oligonucleotide
  JOURNAL   Patent: US 5969117-A 2 19-OCT-1999;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
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ORIGIN

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  Matches   12;  Conservative    3;  Mismatches   2;  Indels   0;  Gaps   0;

Qy          5 GCGUGCCUCCUCACUGG 21
              ||| |||:||:| |:||
Db          1 GCGCGCCTCCTCGCTGG 17
```

RESULT 38
AR080887
```
LOCUS        AR080887                    18 bp    DNA       linear    PAT 31-AUG-2000
DEFINITION   Sequence 5 from patent US 5969117.
ACCESSION    AR080887
VERSION      AR080887.1  GI:10007616
KEYWORDS     .
SOURCE       Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE    1  (bases 1 to 18)
  AUTHORS    Agrawal,S.
  TITLE      Modified protein kinase a-specific oligonucleotide
  JOURNAL    Patent: US 5969117-A 5 19-OCT-1999;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
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ORIGIN

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  Query Match               65.7%;   Score 13.8;   DB 2;   Length 18;
  Best Local Similarity     70.6%;   Pred. No. 2.8e+04;
  Matches   12;  Conservative    3;  Mismatches   2;  Indels   0;  Gaps   0;

Qy          5 GCGUGCCUCCUCACUGG 21
              ||| |||:||:| |:||
Db          1 GCGCGCCTCCTCGCTGG 17
```

RESULT 39
AR080889
```
LOCUS        AR080889                    18 bp    DNA       linear    PAT 31-AUG-2000
DEFINITION   Sequence 7 from patent US 5969117.
ACCESSION    AR080889
VERSION      AR080889.1  GI:10007618
KEYWORDS     .
SOURCE       Unknown.
  ORGANISM   Unknown.
             Unclassified.
REFERENCE    1  (bases 1 to 18)
  AUTHORS    Agrawal,S.
  TITLE      Modified protein kinase a-specific oligonucleotide
  JOURNAL    Patent: US 5969117-A 7 19-OCT-1999;
FEATURES             Location/Qualifiers
     source          1. .18
                     /organism="unknown"
                     /mol_type="unassigned DNA"
```
ORIGIN

```
  Query Match               65.7%;   Score 13.8;   DB 2;   Length 18;
```

```
Best Local Similarity   70.6%;  Pred. No. 2.8e+04;
Matches   12;  Conservative    3;  Mismatches   2;  Indels    0;  Gaps    0;
```

```
Qy      5 GCGUGCCUCCUCACUGG 21
          ||| |||:||:| |:||
Db      1 GCGCGCCTCCTCGCTGG 17
```

RESULT 40
BD107650
```
LOCUS       BD107650                18 bp    DNA      linear   PAT 18-SEP-2002
DEFINITION  Modified protein kinase A-specific oligonucloetides and methods of
            their use.
ACCESSION   BD107650
VERSION     BD107650.1  GI:23202468
KEYWORDS    JP 2002501370-A/2.
SOURCE .    unidentified
  ORGANISM  unidentified
            unclassified sequences.
REFERENCE   1  (bases 1 to 18)
  AUTHORS   Agrawal,S.
  TITLE     Modified protein kinase A-specific oligonucloetides and methods of
            their use
  JOURNAL   Patent: JP 2002501370-A 2 15-JAN-2002;
            HYBRIDON INC
COMMENT     OS    Unidentified
            PN    JP 2002501370-A/2
            PD    15-JAN-2002
            PF    12-FEB-1998 JP 1998539567
            PR    12-MAR-1997 US    60/040740
            PI    SUDHIR AGRAWAL
            PC    C12N15/11,A61K31/70,C07H21/04
            CC    Strandedness: Single;
            CC    Topology: Linear;
            CC    Modified protein kinase A-specific oligonucloetides and  CC
                    methods of their
            CC    use
            FH    Key             Location/Qualifiers
            FT    source          1. .18
            FT                    /organism='Unidentified'.
FEATURES            Location/Qualifiers
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                    /organism="unidentified"
                    /mol_type="genomic DNA"
                    /db_xref="taxon:32644"
ORIGIN
```

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Query Match           65.7%;  Score 13.8;  DB 2;  Length 18;
Best Local Similarity   70.6%;  Pred. No. 2.8e+04;
Matches   12;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy      5 GCGUGCCUCCUCACUGG 21
          ||| |||:||:| |:||
Db      1 GCGCGCCTCCTCGCTGG 17
```

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SCORE Search Results Details for Application 1(and Search Result us-10-728-491-1.max.

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OM nucleic - nucleic search, using sw model

Run on: November 20, 2006, 05:50:09 ; Search time 98 Seconds
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Title: US-10-728-491-1
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Searched: 1403666 seqs, 935554401 residues

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        Pred. No. is the number of results predicted by chance to have a
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                                SUMMARIES

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Result   Query
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	2	17	81.0	18	2	US-08-060-984-2	Sequence 2, Appli
	3	17	81.0	18	2	US-08-383-742-2	Sequence 2, Appli
	4	17	81.0	18	2	US-08-532-979-1	Sequence 1, Appli
	5	17	81.0	18	2	US-08-532-979-4	Sequence 4, Appli
	6	17	81.0	18	2	US-08-532-979-6	Sequence 6, Appli
	7	17	81.0	18	3	US-09-540-699-1	Sequence 1, Appli
	8	17	81.0	18	3	US-09-587-934B-20	Sequence 20, Appl
	9	17	81.0	18	3	US-09-321-249-20	Sequence 20, Appl
	10	17	81.0	18	3	US-09-835-370-39	Sequence 39, Appl
	11	17	81.0	18	3	US-09-108-673A-39	Sequence 39, Appl
	12	17	81.0	18	3	US-09-108-673A-40	Sequence 40, Appl
	13	17	81.0	18	3	US-09-108-673A-41	Sequence 41, Appl
	14	17	81.0	18	3	US-09-835-371-39	Sequence 39, Appl
	15	17	81.0	18	3	US-09-777-526A-20	Sequence 20, Appl
	16	17	81.0	20	3	US-09-167-375-15	Sequence 15, Appl
c	17	17	81.0	20	3	US-09-167-375-18	Sequence 18, Appl
	18	17	81.0	23	3	US-09-540-699-6	Sequence 6, Appli
	19	17	81.0	23	3	US-09-540-699-10	Sequence 10, Appl
	20	17	81.0	24	3	US-09-540-699-4	Sequence 4, Appli
	21	17	81.0	24	3	US-09-540-699-7	Sequence 7, Appli
	22	17	81.0	25	3	US-09-540-699-8	Sequence 8, Appli
	23	17	81.0	25	3	US-09-540-699-11	Sequence 11, Appl
	24	17	81.0	26	3	US-09-540-699-9	Sequence 9, Appli
c	25	14.8	70.5	20	3	US-09-690-364-100	Sequence 100, App
	26	14.8	70.5	25	3	US-09-396-196G-40930	Sequence 40930, A
	27	14.4	68.6	23	3	US-09-540-699-5	Sequence 5, Appli
	28	14.4	68.6	25	3	US-09-396-196G-110880	Sequence 110880,
	29	14.4	68.6	25	3	US-09-396-196G-110881	Sequence 110881,
	30	13.8	65.7	18	2	US-08-532-979-2	Sequence 2, Appli
	31	13.8	65.7	18	2	US-08-532-979-5	Sequence 5, Appli
	32	13.8	65.7	18	2	US-08-532-979-7	Sequence 7, Appli
c	33	13.6	64.8	23	3	US-09-896-594-4	Sequence 4, Appli
c	34	13.6	64.8	23	3	US-09-896-594-8	Sequence 8, Appli
c	35	13.4	63.8	25	3	US-09-396-196G-40807	Sequence 40807, A
c	36	13.2	62.9	25	3	US-09-396-196G-15028	Sequence 15028, A
	37	13.2	62.9	30	3	US-09-302-357-51	Sequence 51, Appl
	38	13.2	62.9	30	3	US-09-697-719-51	Sequence 51, Appl
c	39	13	61.9	24	3	US-10-196-000-5	Sequence 5, Appli
c	40	13	61.9	25	3	US-09-396-196G-36692	Sequence 36692, A
	41	13	61.9	26	2	US-08-277-857-8	Sequence 8, Appli
	42	13	61.9	26	2	US-08-277-857-33	Sequence 33, Appl
c	43	13	61.9	26	2	US-08-277-857-59	Sequence 59, Appl
c	44	13	61.9	26	2	US-08-277-857-84	Sequence 84, Appl
	45	13	61.9	26	3	US-09-108-673A-93	Sequence 93, Appl
	46	13	61.9	26	7	PCT-US95-09080-8	Sequence 8, Appli
	47	13	61.9	26	7	PCT-US95-09080-33	Sequence 33, Appl
c	48	13	61.9	26	7	PCT-US95-09080-59	Sequence 59, Appl
c	49	13	61.9	26	7	PCT-US95-09080-84	Sequence 84, Appl
c	50	13	61.9	29	3	US-10-012-070A-20	Sequence 20, Appl
	51	12.8	61.0	25	3	US-09-396-196G-125612	Sequence 125612,
	52	12.6	60.0	21	3	US-08-949-344C-18	Sequence 18, Appl
c	53	12.6	60.0	21	3	US-09-344-510B-14	Sequence 14, Appl
	54	12.6	60.0	22	3	US-08-564-496C-33	Sequence 33, Appl
	55	12.6	60.0	22	3	US-09-506-859-33	Sequence 33, Appl
	56	12.6	60.0	22	7	PCT-US95-15428-33	Sequence 33, Appl
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c	59	12.6	60.0	25	3	US-09-866-108A-3432	Sequence 3432, Ap
c	60	12.6	60.0	25	3	US-09-866-108A-3433	Sequence 3433, Ap
c	61	12.6	60.0	25	3	US-09-866-108A-3434	Sequence 3434, Ap

c	62	12.6	60.0	25	3	US-09-866-108A-3435	Sequence 3435, Ap
c	63	12.6	60.0	25	3	US-09-866-108A-3436	Sequence 3436, Ap
	64	12.6	60.0	25	3	US-09-396-196G-88970	Sequence 88970, A
	65	12.6	60.0	25	3	US-09-396-196G-127144	Sequence 127144,
c	66	12.6	60.0	27	3	US-08-584-040-7128	Sequence 7128, Ap
	67	12.4	59.0	25	3	US-09-396-196G-2390	Sequence 2390, Ap
	68	12.4	59.0	25	3	US-09-396-196G-4745	Sequence 4745, Ap
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c	70	12.4	59.0	25	3	US-09-396-196G-124367	Sequence 124367,
c	71	12.4	59.0	25	3	US-09-396-196G-124368	Sequence 124368,
c	72	12.4	59.0	25	3	US-09-396-196G-124383	Sequence 124383,
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	74	12.2	58.1	19	3	US-08-468-024B-12	Sequence 12, Appl
	75	12.2	58.1	19	3	US-08-187-757D-10	Sequence 10, Appl
	76	12.2	58.1	19	3	US-08-465-679-12	Sequence 12, Appl
	77	12.2	58.1	19	3	US-08-210-143C-10	Sequence 10, Appl
	78	12.2	58.1	20	3	US-09-344-914-12	Sequence 12, Appl
	79	12.2	58.1	20	3	US-09-344-914-13	Sequence 13, Appl
c	80	12.2	58.1	25	3	US-09-268-544B-11	Sequence 11, Appl
	81	12.2	58.1	25	3	US-09-396-196G-80105	Sequence 80105, A
	82	12.2	58.1	25	3	US-09-396-196G-105532	Sequence 105532,
c	83	12.2	58.1	25	3	US-09-396-196G-122293	Sequence 122293,
c	84	12.2	58.1	25	3	US-09-396-196G-122294	Sequence 122294,
c	85	12.2	58.1	25	3	US-09-950-902-6	Sequence 6, Appli
	86	12.2	58.1	29	2	US-08-384-708A-20	Sequence 20, Appl
	87	12.2	58.1	29	3	US-08-687-421-20	Sequence 20, Appl
	88	12.2	58.1	29	3	US-08-442-423-20	Sequence 20, Appl
c	89	12.2	58.1	29	3	US-09-735-271-1783	Sequence 1783, Ap
c	90	12	57.1	20	3	US-09-081-385-120	Sequence 120, App
	91	12	57.1	20	3	US-09-050-516-38	Sequence 38, Appl
	92	12	57.1	20	3	US-10-278-547-38	Sequence 38, Appl
c	93	12	57.1	20	3	US-09-752-639-120	Sequence 120, App
c	94	12	57.1	20	3	US-09-712-813-120	Sequence 120, App
c	95	12	57.1	20	3	US-09-700-354A-120	Sequence 120, App
c	96	12	57.1	21	2	US-08-318-837-36	Sequence 36, Appl
	97	12	57.1	24	3	US-08-934-386-45	Sequence 45, Appl
	98	12	57.1	24	3	US-08-934-386-62	Sequence 62, Appl
	99	12	57.1	25	2	US-08-095-728B-10	Sequence 10, Appl
c	100	12	57.1	25	2	US-08-318-837-45	Sequence 45, Appl
	101	12	57.1	25	3	US-08-469-260A-111	Sequence 111, App
	102	12	57.1	25	3	US-08-488-446-111	Sequence 111, App
	103	12	57.1	25	3	US-08-467-344A-111	Sequence 111, App
	104	12	57.1	25	3	US-08-424-550B-111	Sequence 111, App
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c	108	12	57.1	25	3	US-09-396-196G-50995	Sequence 50995, A
c	109	12	57.1	25	3	US-09-396-196G-83738	Sequence 83738, A
c	110	12	57.1	25	3	US-09-396-196G-112147	Sequence 112147,
c	111	12	57.1	25	3	US-09-396-196G-116370	Sequence 116370,
c	112	12	57.1	27	2	US-08-758-306-374	Sequence 374, App
c	113	12	57.1	30	2	US-08-779-113-60	Sequence 60, Appl
c	114	12	57.1	30	3	US-10-232-858-32	Sequence 32, Appl
	115	12	57.1	30	3	US-10-232-858-33	Sequence 33, Appl
c	116	12	57.1	30	3	US-09-338-063A-32	Sequence 32, Appl
	117	12	57.1	30	3	US-09-338-063A-33	Sequence 33, Appl
c	118	11.8	56.2	19	3	US-09-402-690-15	Sequence 15, Appl
c	119	11.8	56.2	20	3	US-09-402-690-9	Sequence 9, Appli
c	120	11.8	56.2	20	3	US-09-402-690-19	Sequence 19, Appl
	121	11.8	56.2	20	3	US-09-975-123-41	Sequence 41, Appl
	122	11.8	56.2	21	3	US-09-422-978-9808	Sequence 9808, Ap

c 123	11.8	56.2	22	3	US-08-801-154-4	Sequence 4, Appli
c 124	11.8	56.2	22	3	US-08-873-709-13	Sequence 13, Appl
c 125	11.8	56.2	22	3	US-09-437-034B-8	Sequence 8, Appli
c 126	11.8	56.2	22	3	US-09-255-464B-9	Sequence 9, Appli
c 127	11.8	56.2	23	3	US-09-448-256-8	Sequence 8, Appli
c 128	11.8	56.2	23	3	US-09-928-463A-8	Sequence 8, Appli
c 129	11.8	56.2	25	3	US-08-801-154-6	Sequence 6, Appli
c 130	11.8	56.2	25	3	US-08-873-709-15	Sequence 15, Appl
c 131	11.8	56.2	25	3	US-09-437-034B-10	Sequence 10, Appl
c 132	11.8	56.2	25	3	US-09-255-464B-11	Sequence 11, Appl
133	11.8	56.2	25	3	US-09-396-196G-108487	Sequence 108487,
c 134	11.8	56.2	25	3	US-09-396-196G-122292	Sequence 122292,
135	11.8	56.2	26	3	US-08-801-154-5	Sequence 5, Appli
136	11.8	56.2	26	3	US-08-873-709-14	Sequence 14, Appl
137	11.8	56.2	26	3	US-09-437-034B-9	Sequence 9, Appli
138	11.8	56.2	26	3	US-09-255-464B-10	Sequence 10, Appl
c 139	11.8	56.2	29	3	US-09-304-232-15	Sequence 15, Appl
140	11.6	55.2	18	3	US-09-167-109-117	Sequence 117, App
141	11.6	55.2	20	2	US-08-117-952-537	Sequence 537, App
142	11.6	55.2	20	2	US-08-651-692-39	Sequence 39, Appl
143	11.6	55.2	20	3	US-08-464-582-2	Sequence 2, Appli
144	11.6	55.2	20	3	US-08-462-513-2	Sequence 2, Appli
145	11.6	55.2	20	3	US-09-630-155-7	Sequence 7, Appli
146	11.6	55.2	20	3	US-08-031-801-2	Sequence 2, Appli
147	11.6	55.2	21	3	US-09-422-978-8195	Sequence 8195, Ap
148	11.6	55.2	22	3	US-09-142-623-23	Sequence 23, Appl
149	11.6	55.2	22	3	US-09-508-264A-8	Sequence 8, Appli
c 150	11.6	55.2	25	3	US-09-866-108A-3429	Sequence 3429, Ap
c 151	11.6	55.2	25	3	US-09-866-108A-3437	Sequence 3437, Ap
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153	11.6	55.2	25	3	US-09-396-196G-23288	Sequence 23288, A
c 154	11.6	55.2	25	3	US-09-396-196G-35053	Sequence 35053, A
c 155	11.6	55.2	25	3	US-09-396-196G-41610	Sequence 41610, A
156	11.6	55.2	25	3	US-09-396-196G-60927	Sequence 60927, A
c 157	11.6	55.2	25	3	US-09-396-196G-67597	Sequence 67597, A
c 158	11.6	55.2	25	3	US-09-396-196G-67598	Sequence 67598, A
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161	11.6	55.2	25	3	US-09-396-196G-68759	Sequence 68759, A
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163	11.6	55.2	25	3	US-09-396-196G-88732	Sequence 88732, A
c 164	11.6	55.2	27	3	US-08-985-162-1467	Sequence 1467, Ap
c 165	11.6	55.2	27	3	US-09-401-063-1467	Sequence 1467, Ap
166	11.6	55.2	30	3	US-08-513-974B-135	Sequence 135, App
c 167	11.6	55.2	30	3	US-09-504-358-43	Sequence 43, Appl
c 168	11.6	55.2	30	3	US-09-052-919-35	Sequence 35, Appl
c 169	11.6	55.2	30	3	US-09-954-314-43	Sequence 43, Appl
c 170	11.6	55.2	30	3	US-09-302-357-52	Sequence 52, Appl
c 171	11.6	55.2	30	3	US-09-953-052-35	Sequence 35, Appl
c 172	11.6	55.2	30	3	US-10-230-562-43	Sequence 43, Appl
c 173	11.6	55.2	30	3	US-09-697-719-52	Sequence 52, Appl
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175	11.4	54.3	18	3	US-09-387-341-153	Sequence 153, App
176	11.4	54.3	20	3	US-09-344-914-8	Sequence 8, Appli
177	11.4	54.3	20	3	US-09-344-914-9	Sequence 9, Appli
178	11.4	54.3	20	3	US-09-344-914-10	Sequence 10, Appl
179	11.4	54.3	20	3	US-09-344-914-11	Sequence 11, Appl
c 180	11.4	54.3	20	3	US-08-853-980-4	Sequence 4, Appli
c 181	11.4	54.3	20	3	US-09-487-368A-221	Sequence 221, App
c 182	11.4	54.3	20	3	US-09-629-644A-221	Sequence 221, App
c 183	11.4	54.3	20	3	US-09-629-644A-221	Sequence 221, App

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c	186	11.4	54.3	24	3	US-09-021-660A-18	Sequence 18, Appl
	187	11.4	54.3	24	3	US-09-991-181-526	Sequence 526, App
	188	11.4	54.3	24	3	US-09-990-444-526	Sequence 526, App
	189	11.4	54.3	24	3	US-09-997-333-526	Sequence 526, App
	190	11.4	54.3	24	3	US-09-992-598-526	Sequence 526, App
	191	11.4	54.3	24	4	US-09-989-735-526	Sequence 526, App
	192	11.4	54.3	24	5	US-09-989-726-526	Sequence 526, App
	193	11.4	54.3	24	5	US-09-997-514-526	Sequence 526, App
	194	11.4	54.3	24	5	US-09-989-728-526	Sequence 526, App
	195	11.4	54.3	24	5	US-09-997-349-526	Sequence 526, App
	196	11.4	54.3	24	5	US-09-997-653-526	Sequence 526, App
	197	11.4	54.3	24	5	US-09-989-293A-526	Sequence 526, App
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c	202	11.4	54.3	25	3	US-09-396-196G-37732	Sequence 37732, A
c	203	11.4	54.3	25	3	US-09-396-196G-53722	Sequence 53722, A
c	204	11.4	54.3	25	3	US-09-396-196G-55101	Sequence 55101, A
c	205	11.4	54.3	25	3	US-09-396-196G-87492	Sequence 87492, A
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	207	11.4	54.3	25	3	US-09-396-196G-111069	Sequence 111069,
	208	11.4	54.3	25	3	US-09-396-196G-111818	Sequence 111818,
	209	11.4	54.3	25	3	US-09-396-196G-111819	Sequence 111819,
	210	11.4	54.3	25	3	US-09-396-196G-111820	Sequence 111820,
c	211	11.4	54.3	25	3	US-09-999-833A-174	Sequence 174, App
c	212	11.4	54.3	25	3	US-10-020-445A-174	Sequence 174, App
c	213	11.4	54.3	25	4	US-09-978-189-174	Sequence 174, App
c	214	11.4	54.3	25	4	US-10-017-085A-174	Sequence 174, App
c	215	11.4	54.3	25	5	US-10-145-129A-174	Sequence 174, App
c	216	11.4	54.3	25	5	US-10-013-929A-174	Sequence 174, App
c	217	11.4	54.3	25	5	US-10-013-917A-174	Sequence 174, App
c	218	11.4	54.3	29	3	US-09-727-739B-51	Sequence 51, Appl
c	219	11.4	54.3	29	3	US-10-126-279-41	Sequence 41, Appl
c	220	11.4	54.3	29	3	US-10-286-606-41	Sequence 41, Appl
c	221	11.4	54.3	29	4	US-10-891-383A-41	Sequence 41, Appl
c	222	11.4	54.3	30	2	US-08-859-998-227	Sequence 227, App
c	223	11.4	54.3	30	3	US-09-014-416-22	Sequence 22, Appl
c	224	11.4	54.3	30	3	US-09-225-928-227	Sequence 227, App
c	225	11.4	54.3	30	3	US-09-163-507-6	Sequence 6, Appli
c	226	11.4	54.3	30	3	US-09-225-201B-227	Sequence 227, App
	227	11.2	53.3	16	2	US-08-585-888-15	Sequence 15, Appl
	228	11.2	53.3	16	3	US-09-195-991-15	Sequence 15, Appl
c	229	11.2	53.3	17	3	US-09-866-108A-501	Sequence 501, App
c	230	11.2	53.3	17	3	US-09-866-108A-502	Sequence 502, App
c	231	11.2	53.3	17	3	US-09-866-108A-6377	Sequence 6377, Ap
c	232	11.2	53.3	17	3	US-09-866-108A-6378	Sequence 6378, Ap
c	233	11.2	53.3	17	5	US-10-156-306B-5846	Sequence 5846, Ap
c	234	11.2	53.3	18	3	US-09-950-920-7	Sequence 7, Appli
	235	11.2	53.3	19	2	US-08-585-888-17	Sequence 17, Appl
	236	11.2	53.3	19	3	US-09-195-991-17	Sequence 17, Appl
	237	11.2	53.3	20	2	US-07-889-651-2	Sequence 2, Appli
	238	11.2	53.3	20	2	US-08-379-072A-1	Sequence 1, Appli
	239	11.2	53.3	20	2	US-08-478-039-111	Sequence 111, App
	240	11.2	53.3	20	2	US-08-481-869-1	Sequence 1, Appli
	241	11.2	53.3	20	2	US-08-476-349A-111	Sequence 111, App
	242	11.2	53.3	20	3	US-08-803-085-28	Sequence 28, Appl
	243	11.2	53.3	20	3	US-09-416-756A-6	Sequence 6, Appli
	244	11.2	53.3	20	3	US-09-661-753-31	Sequence 31, Appl

c 245	11.2	53.3	20	3	US-08-626-285-4	Sequence 4, Appli
246	11.2	53.3	20	3	US-10-027-983-86	Sequence 86, Appl
247	11.2	53.3	20	3	US-09-680-310-8	Sequence 8, Appli
248	11.2	53.3	20	3	US-09-019-441A-32	Sequence 32, Appl
249	11.2	53.3	20	3	US-10-209-405-19	Sequence 19, Appl
c 250	11.2	53.3	20	3	US-10-209-405-91	Sequence 91, Appl
251	11.2	53.3	20	5	US-09-292-053A-28	Sequence 28, Appl
252	11.2	53.3	21	3	US-09-422-978-10793	Sequence 10793, A
c 253	11.2	53.3	22	2	US-08-379-078-587	Sequence 587, App
254	11.2	53.3	22	3	US-09-101-886B-8	Sequence 8, Appli
c 255	11.2	53.3	22	3	US-07-974-409C-210	Sequence 210, App
c 256	11.2	53.3	22	7	PCT-US93-00977-210	Sequence 210, App
c 257	11.2	53.3	24	3	US-10-000-467-6	Sequence 6, Appli
258	11.2	53.3	25	3	US-09-455-679-21	Sequence 21, Appl
c 259	11.2	53.3	25	3	US-09-866-108A-3438	Sequence 3438, Ap
c 260	11.2	53.3	25	3	US-09-866-108A-3439	Sequence 3439, Ap
c 261	11.2	53.3	25	3	US-09-866-108A-11269	Sequence 11269, A
c 262	11.2	53.3	25	3	US-09-866-108A-11270	Sequence 11270, A
c 263	11.2	53.3	25	3	US-09-866-108A-11271	Sequence 11271, A
c 264	11.2	53.3	25	3	US-09-866-108A-11272	Sequence 11272, A
c 265	11.2	53.3	25	3	US-09-866-108A-11273	Sequence 11273, A
c 266	11.2	53.3	25	3	US-09-866-108A-11274	Sequence 11274, A
c 267	11.2	53.3	25	3	US-09-866-108A-11275	Sequence 11275, A
c 268	11.2	53.3	25	3	US-09-866-108A-11276	Sequence 11276, A
c 269	11.2	53.3	25	3	US-09-866-108A-11277	Sequence 11277, A
c 270	11.2	53.3	25	3	US-09-866-108A-11278	Sequence 11278, A
c 271	11.2	53.3	25	3	US-09-396-196G-143	Sequence 143, App
272	11.2	53.3	25	3	US-09-396-196G-6545	Sequence 6545, Ap
c 273	11.2	53.3	25	3	US-09-396-196G-16347	Sequence 16347, A
274	11.2	53.3	25	3	US-09-396-196G-26397	Sequence 26397, A
275	11.2	53.3	25	3	US-09-396-196G-29775	Sequence 29775, A
c 276	11.2	53.3	25	3	US-09-396-196G-32496	Sequence 32496, A
c 277	11.2	53.3	25	3	US-09-396-196G-51783	Sequence 51783, A
278	11.2	53.3	25	3	US-09-396-196G-66306	Sequence 66306, A
c 279	11.2	53.3	25	3	US-09-396-196G-71634	Sequence 71634, A
c 280	11.2	53.3	25	3	US-09-396-196G-71635	Sequence 71635, A
c 281	11.2	53.3	25	3	US-09-396-196G-74586	Sequence 74586, A
282	11.2	53.3	25	3	US-09-396-196G-76002	Sequence 76002, A
c 283	11.2	53.3	25	3	US-09-396-196G-76019	Sequence 76019, A
c 284	11.2	53.3	25	3	US-09-396-196G-76020	Sequence 76020, A
c 285	11.2	53.3	25	3	US-09-396-196G-76021	Sequence 76021, A
c 286	11.2	53.3	25	3	US-09-396-196G-76022	Sequence 76022, A
c 287	11.2	53.3	25	3	US-09-396-196G-76023	Sequence 76023, A
c 288	11.2	53.3	25	3	US-09-396-196G-76024	Sequence 76024, A
c 289	11.2	53.3	25	3	US-09-396-196G-76035	Sequence 76035, A
290	11.2	53.3	25	3	US-09-396-196G-87119	Sequence 87119, A
291	11.2	53.3	25	3	US-09-396-196G-91794	Sequence 91794, A
292	11.2	53.3	25	3	US-09-396-196G-91795	Sequence 91795, A
293	11.2	53.3	25	3	US-09-396-196G-107551	Sequence 107551,
294	11.2	53.3	25	3	US-09-396-196G-107552	Sequence 107552,
c 295	11.2	53.3	27	3	US-09-253-396A-41	Sequence 41, Appl
c 296	11.2	53.3	30	2	US-07-931-473B-30	Sequence 30, Appl
c 297	11.2	53.3	30	2	US-07-714-131C-30	Sequence 30, Appl
298	11.2	53.3	30	2	US-08-215-749A-1	Sequence 1, Appli
c 299	11.2	53.3	30	2	US-08-412-110-30	Sequence 30, Appl
c 300	11.2	53.3	30	2	US-08-409-442A-30	Sequence 30, Appl
c 301	11.2	53.3	30	2	US-08-469-609A-30	Sequence 30, Appl
c 302	11.2	53.3	30	3	US-09-143-190-30	Sequence 30, Appl
303	11.2	53.3	30	3	US-09-230-222-18	Sequence 18, Appl
c 304	11.2	53.3	30	3	US-09-502-344-30	Sequence 30, Appl
305	11.2	53.3	30	3	US-09-230-225B-25	Sequence 25, Appl

306	11.2	53.3	30	3	US-10-014-055-17	Sequence 17, Appl
307	11.2	53.3	30	3	US-10-028-051A-17	Sequence 17, Appl
c 308	11.2	53.3	30	3	US-10-037-986-30	Sequence 30, Appl
309	11.2	53.3	30	5	US-09-958-359-14	Sequence 14, Appl
310	11	52.4	17	3	US-09-021-701-79	Sequence 79, Appl
311	11	52.4	17	3	US-09-021-701-80	Sequence 80, Appl
312	11	52.4	17	3	US-09-021-701-81	Sequence 81, Appl
313	11	52.4	17	3	US-09-021-701-82	Sequence 82, Appl
314	11	52.4	17	3	US-09-021-701-83	Sequence 83, Appl
315	11	52.4	17	3	US-09-021-701-84	Sequence 84, Appl
316	11	52.4	17	3	US-09-021-701-85	Sequence 85, Appl
317	11	52.4	18	3	US-09-573-425B-34	Sequence 34, Appl
c 318	11	52.4	20	2	US-08-065-845-2	Sequence 2, Appli
319	11	52.4	20	2	US-08-065-845-4	Sequence 4, Appli
320	11	52.4	20	2	US-08-233-608-39	Sequence 39, Appl
c 321	11	52.4	20	2	US-08-233-608-40	Sequence 40, Appl
c 322	11	52.4	20	2	US-08-429-523-2	Sequence 2, Appli
323	11	52.4	20	2	US-08-429-523-4	Sequence 4, Appli
c 324	11	52.4	20	2	US-08-429-532-2	Sequence 2, Appli
325	11	52.4	20	2	US-08-429-532-4	Sequence 4, Appli
326	11	52.4	20	2	US-07-976-103A-26	Sequence 26, Appl
c 327	11	52.4	20	2	US-08-429-522-2	Sequence 2, Appli
328	11	52.4	20	2	US-08-429-522-4	Sequence 4, Appli
c 329	11	52.4	20	2	US-08-429-520-2	Sequence 2, Appli
330	11	52.4	20	2	US-08-429-520-4	Sequence 4, Appli
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c 332	11	52.4	20	2	US-08-742-023-11	Sequence 11, Appl
333	11	52.4	20	2	US-08-887-480-39	Sequence 39, Appl
c 334	11	52.4	20	2	US-08-887-480-40	Sequence 40, Appl
335	11	52.4	20	2	US-08-905-314A-2	Sequence 2, Appli
c 336	11	52.4	20	2	US-08-905-314A-3	Sequence 3, Appli
c 337	11	52.4	20	2	US-08-557-139-18	Sequence 18, Appl
338	11	52.4	20	2	US-08-473-481-26	Sequence 26, Appl
c 339	11	52.4	20	2	US-08-704-207-2	Sequence 2, Appli
340	11	52.4	20	2	US-08-722-187-39	Sequence 39, Appl
c 341	11	52.4	20	2	US-08-722-187-40	Sequence 40, Appl
342	11	52.4	20	3	US-08-968-505-10	Sequence 10, Appl
c 343	11	52.4	20	3	US-08-968-505-11	Sequence 11, Appl
c 344	11	52.4	20	3	US-09-429-323-4	Sequence 4, Appli
c 345	11	52.4	20	3	US-09-280-805-51	Sequence 51, Appl
c 346	11	52.4	20	3	US-09-517-584A-17	Sequence 17, Appl
c 347	11	52.4	20	3	US-09-153-555-4	Sequence 4, Appli
348	11	52.4	20	3	US-09-258-967-2	Sequence 2, Appli
c 349	11	52.4	20	3	US-09-258-967-3	Sequence 3, Appli
c 350	11	52.4	20	3	US-09-269-136B-2	Sequence 2, Appli
351	11	52.4	20	3	US-09-269-136B-4	Sequence 4, Appli
c 352	11	52.4	20	3	US-08-903-446A-14	Sequence 14, Appl
c 353	11	52.4	20	3	US-09-487-368A-153	Sequence 153, App
354	11	52.4	20	3	US-09-026-601-2	Sequence 2, Appli
c 355	11	52.4	20	3	US-09-026-601-3	Sequence 3, Appli
356	11	52.4	20	3	US-08-599-738A-26	Sequence 26, Appl
357	11	52.4	20	3	US-09-295-593-14	Sequence 14, Appl
358	11	52.4	20	3	US-09-481-293-2	Sequence 2, Appli
c 359	11	52.4	20	3	US-09-481-293-3	Sequence 3, Appli
c 360	11	52.4	20	3	US-09-629-644A-153	Sequence 153, App
c 361	11	52.4	20	3	US-09-629-644A-153	Sequence 153, App
362	11	52.4	20	3	US-09-939-379B-2	Sequence 2, Appli
c 363	11	52.4	20	3	US-09-939-379B-3	Sequence 3, Appli
364	11	52.4	20	3	US-09-495-714C-65	Sequence 65, Appl
365	11	52.4	20	3	US-09-758-881-141	Sequence 141, App
366	11	52.4	20	3	US-09-232-785-185	Sequence 185, App

367	11	52.4	20	3	US-09-961-663-2	Sequence 2, Appli
c 368	11	52.4	20	3	US-09-961-663-3	Sequence 3, Appli
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c 370	11	52.4	20	3	US-09-584-216-2	Sequence 2, Appli
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c 372	11	52.4	20	3	US-09-961-755A-11	Sequence 11, Appl
c 373	11	52.4	20	3	US-10-232-858-29	Sequence 29, Appl
374	11	52.4	20	3	US-10-294-203-26	Sequence 26, Appl
c 375	11	52.4	20	3	US-09-338-063A-29	Sequence 29, Appl
376	11	52.4	20	3	US-10-024-818-26	Sequence 26, Appl
377	11	52.4	20	7	PCT-US95-04712-39	Sequence 39, Appl
c 378	11	52.4	20	7	PCT-US95-04712-40	Sequence 40, Appl
379	11	52.4	21	2	US-07-665-960A-48	Sequence 48, Appl
380	11	52.4	21	2	US-08-106-802-48	Sequence 48, Appl
381	11	52.4	21	2	US-08-585-888-9	Sequence 9, Appli
382	11	52.4	21	2	US-08-703-136-48	Sequence 48, Appl
383	11	52.4	21	3	US-09-195-991-9	Sequence 9, Appli
c 384	11	52.4	21	3	US-09-177-650-59	Sequence 59, Appl
c 385	11	52.4	21	3	US-09-435-471B-6	Sequence 6, Appli
c 386	11	52.4	22	3	US-09-907-843-6	Sequence 6, Appli
c 387	11	52.4	22	3	US-09-612-204B-30	Sequence 30, Appl
c 388	11	52.4	22	3	US-10-055-364-30	Sequence 30, Appl
c 389	11	52.4	23	3	US-09-234-827B-6	Sequence 6, Appli
390	11	52.4	25	3	US-09-396-196G-21089	Sequence 21089, A
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c 393	11	52.4	25	3	US-09-396-196G-22450	Sequence 22450, A
c 394	11	52.4	25	3	US-09-396-196G-29269	Sequence 29269, A
c 395	11	52.4	25	3	US-09-396-196G-36690	Sequence 36690, A
396	11	52.4	25	3	US-09-396-196G-37765	Sequence 37765, A
397	11	52.4	25	3	US-09-396-196G-38509	Sequence 38509, A
398	11	52.4	25	3	US-09-396-196G-38510	Sequence 38510, A
399	11	52.4	25	3	US-09-396-196G-38511	Sequence 38511, A
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c 402	11	52.4	25	3	US-09-396-196G-49775	Sequence 49775, A
c 403	11	52.4	25	3	US-09-396-196G-49776	Sequence 49776, A
c 404	11	52.4	25	3	US-09-396-196G-49777	Sequence 49777, A
c 405	11	52.4	25	3	US-09-396-196G-50486	Sequence 50486, A
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407	11	52.4	25	3	US-09-396-196G-62151	Sequence 62151, A
408	11	52.4	25	3	US-09-396-196G-65058	Sequence 65058, A
409	11	52.4	25	3	US-09-396-196G-65474	Sequence 65474, A
c 410	11	52.4	25	3	US-09-396-196G-67333	Sequence 67333, A
c 411	11	52.4	25	3	US-09-396-196G-75167	Sequence 75167, A
c 412	11	52.4	25	3	US-09-396-196G-75168	Sequence 75168, A
c 413	11	52.4	25	3	US-09-396-196G-82166	Sequence 82166, A
c 414	11	52.4	25	3	US-09-396-196G-82167	Sequence 82167, A
c 415	11	52.4	25	3	US-09-396-196G-82168	Sequence 82168, A
c 416	11	52.4	25	3	US-09-396-196G-82169	Sequence 82169, A
c 417	11	52.4	25	3	US-09-396-196G-82549	Sequence 82549, A
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419	11	52.4	25	3	US-09-396-196G-94677	Sequence 94677, A
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c 422	11	52.4	25	3	US-09-396-196G-105402	Sequence 105402,
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425	11	52.4	25	3	US-09-396-196G-110879	Sequence 110879,
c 426	11	52.4	25	3	US-09-396-196G-113451	Sequence 113451,
c 427	11	52.4	25	3	US-09-396-196G-114483	Sequence 114483,

c 428	11	52.4	25	3	US-09-396-196G-114484	Sequence 114484,
429	11	52.4	25	3	US-09-396-196G-118462	Sequence 118462,
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433	11	52.4	26	3	US-09-225-928-126	Sequence 126, App
c 434	11	52.4	26	3	US-09-593-012-215	Sequence 215, App
435	11	52.4	26	3	US-09-225-201B-126	Sequence 126, App
c 436	11	52.4	26	3	US-09-907-794A-87	Sequence 87, Appl
c 437	11	52.4	26	3	US-09-905-125A-87	Sequence 87, Appl
c 438	11	52.4	26	3	US-09-902-775A-87	Sequence 87, Appl
c 439	11	52.4	26	3	US-08-916-247A-11	Sequence 11, Appl
c 440	11	52.4	26	3	US-09-906-700-87	Sequence 87, Appl
c 441	11	52.4	26	3	US-09-903-603A-87	Sequence 87, Appl
c 442	11	52.4	26	3	US-09-904-920A-87	Sequence 87, Appl
c 443	11	52.4	26	3	US-09-909-064-87	Sequence 87, Appl
c 444	11	52.4	26	3	US-09-905-381A-87	Sequence 87, Appl
c 445	11	52.4	26	3	US-09-906-618-87	Sequence 87, Appl
c 446	11	52.4	26	3	US-09-906-646-87	Sequence 87, Appl
c 447	11	52.4	26	3	US-09-904-462-87	Sequence 87, Appl
c 448	11	52.4	26	3	US-09-902-736A-87	Sequence 87, Appl
c 449	11	52.4	26	3	US-09-906-722A-87	Sequence 87, Appl
c 450	11	52.4	26	4	US-09-905-449-87	Sequence 87, Appl
c 451	11	52.4	26	4	US-09-903-562B-87	Sequence 87, Appl
c 452	11	52.4	26	4	US-09-906-679A-87	Sequence 87, Appl
c 453	11	52.4	26	5	US-09-907-841-87	Sequence 87, Appl
c 454	11	52.4	27	3	US-08-998-099-213	Sequence 213, App
455	11	52.4	27	3	US-08-998-099-230	Sequence 230, App
c 456	11	52.4	27	3	US-08-584-040-5008	Sequence 5008, Ap
c 457	11	52.4	27	3	US-08-584-040-6287	Sequence 6287, Ap
458	11	52.4	28	4	US-09-957-483-51	Sequence 51, Appl
459	11	52.4	28	4	US-09-957-483-54	Sequence 54, Appl
c 460	11	52.4	29	3	US-08-848-760B-20	Sequence 20, Appl
461	11	52.4	29	3	US-09-304-232-657	Sequence 657, App
c 462	11	52.4	29	3	US-09-826-025-20	Sequence 20, Appl
c 463	11	52.4	30	3	US-09-252-436-5	Sequence 5, Appli
464	11	52.4	30	3	US-09-252-436-6	Sequence 6, Appli
465	11	52.4	30	3	US-09-252-436-7	Sequence 7, Appli
466	11	52.4	30	3	US-09-252-436-8	Sequence 8, Appli
467	11	52.4	30	3	US-09-252-436-9	Sequence 9, Appli
468	11	52.4	30	3	US-09-252-436-10	Sequence 10, Appl
469	11	52.4	30	3	US-09-252-436-11	Sequence 11, Appl
470	11	52.4	30	3	US-09-252-436-12	Sequence 12, Appl
471	11	52.4	30	3	US-09-252-436-13	Sequence 13, Appl
472	11	52.4	30	3	US-09-252-436-14	Sequence 14, Appl
473	11	52.4	30	3	US-09-252-436-15	Sequence 15, Appl
474	11	52.4	30	3	US-09-252-436-16	Sequence 16, Appl
c 475	11	52.4	30	3	US-09-358-972-52	Sequence 52, Appl
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477	11	52.4	30	3	US-09-358-972-56	Sequence 56, Appl
478	11	52.4	30	3	US-09-358-972-57	Sequence 57, Appl
479	11	52.4	30	3	US-09-358-972-58	Sequence 58, Appl
480	11	52.4	30	3	US-09-358-972-62	Sequence 62, Appl
481	11	52.4	30	3	US-09-358-972-63	Sequence 63, Appl
482	11	52.4	30	3	US-09-358-972-64	Sequence 64, Appl
483	11	52.4	30	3	US-09-358-972-68	Sequence 68, Appl
484	11	52.4	30	3	US-09-358-972-69	Sequence 69, Appl
485	11	52.4	30	3	US-09-358-972-70	Sequence 70, Appl
486	11	52.4	30	3	US-09-358-972-71	Sequence 71, Appl
c 487	11	52.4	30	3	US-09-358-972-190	Sequence 190, App
c 488	11	52.4	30	3	US-09-358-972-191	Sequence 191, App

	489	11	52.4	30	3	US-09-358-972-192	Sequence 192, App
c	490	11	52.4	30	3	US-09-358-972-193	Sequence 193, App
	491	11	52.4	30	3	US-09-406-064-21	Sequence 21, Appl
c	492	11	52.4	30	3	US-09-406-147-25	Sequence 25, Appl
	493	11	52.4	30	3	US-09-406-147-26	Sequence 26, Appl
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	495	11	52.4	30	3	US-09-788-847-21	Sequence 21, Appl
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	497	11	52.4	30	3	US-09-790-417-53	Sequence 53, Appl
	498	11	52.4	30	3	US-09-790-417-56	Sequence 56, Appl
	499	11	52.4	30	3	US-09-790-417-57	Sequence 57, Appl
	500	11	52.4	30	3	US-09-790-417-58	Sequence 58, Appl
	501	11	52.4	30	3	US-09-790-417-62	Sequence 62, Appl
	502	11	52.4	30	3	US-09-790-417-63	Sequence 63, Appl
	503	11	52.4	30	3	US-09-790-417-64	Sequence 64, Appl
	504	11	52.4	30	3	US-09-790-417-68	Sequence 68, Appl
	505	11	52.4	30	3	US-09-790-417-69	Sequence 69, Appl
	506	11	52.4	30	3	US-09-790-417-70	Sequence 70, Appl
	507	11	52.4	30	3	US-09-790-417-71	Sequence 71, Appl
c	508	11	52.4	30	3	US-09-790-417-190	Sequence 190, App
c	509	11	52.4	30	3	US-09-790-417-191	Sequence 191, App
	510	11	52.4	30	3	US-09-790-417-192	Sequence 192, App
c	511	11	52.4	30	3	US-09-790-417-193	Sequence 193, App
c	512	10.8	51.4	17	3	US-09-474-432B-818	Sequence 818, App
c	513	10.8	51.4	17	3	US-09-476-387-817	Sequence 817, App
c	514	10.8	51.4	17	3	US-09-866-108A-6379	Sequence 6379, Ap
c	515	10.8	51.4	17	3	US-09-866-108A-6380	Sequence 6380, Ap
	516	10.8	51.4	18	3	US-09-106-038A-68	Sequence 68, Appl
c	517	10.8	51.4	18	3	US-08-927-274A-6	Sequence 6, Appli
	518	10.8	51.4	18	3	US-09-071-433-81	Sequence 81, Appl
	519	10.8	51.4	18	3	US-09-564-805-46	Sequence 46, Appl
c	520	10.8	51.4	18	3	US-09-564-805-47	Sequence 47, Appl
	521	10.8	51.4	18	3	US-09-434-382-46	Sequence 46, Appl
c	522	10.8	51.4	18	3	US-09-434-382-47	Sequence 47, Appl
c	523	10.8	51.4	19	2	US-07-696-793A-49	Sequence 49, Appl
c	524	10.8	51.4	19	2	US-07-977-694-49	Sequence 49, Appl
c	525	10.8	51.4	19	2	US-08-359-705B-35	Sequence 35, Appl
c	526	10.8	51.4	19	2	US-08-286-846A-35	Sequence 35, Appl
c	527	10.8	51.4	19	2	US-08-457-880A-35	Sequence 35, Appl
c	528	10.8	51.4	19	3	US-08-444-622A-35	Sequence 35, Appl
c	529	10.8	51.4	19	3	US-08-942-562-35	Sequence 35, Appl
c	530	10.8	51.4	19	3	US-09-156-923-35	Sequence 35, Appl
	531	10.8	51.4	19	3	US-09-215-221-45	Sequence 45, Appl
c	532	10.8	51.4	20	2	US-07-872-644-8	Sequence 8, Appli
c	533	10.8	51.4	20	2	US-08-297-494-8	Sequence 8, Appli
c	534	10.8	51.4	20	2	US-08-297-510-8	Sequence 8, Appli
c	535	10.8	51.4	20	2	US-08-479-532-8	Sequence 8, Appli
c	536	10.8	51.4	20	2	US-08-455-526-8	Sequence 8, Appli
c	537	10.8	51.4	20	2	US-08-455-525-8	Sequence 8, Appli
c	538	10.8	51.4	20	3	US-09-139-491-8	Sequence 8, Appli
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	540	10.8	51.4	20	3	US-09-920-668-16	Sequence 16, Appl
	541	10.8	51.4	20	3	US-09-386-816C-17	Sequence 17, Appl
c	542	10.8	51.4	20	3	US-09-883-825-8	Sequence 8, Appli
	543	10.8	51.4	20	3	US-10-320-176-17	Sequence 17, Appl
c	544	10.8	51.4	20	7	PCT-US92-03222-8	Sequence 8, Appli
c	545	10.8	51.4	21	2	US-08-403-888A-92	Sequence 92, Appl
c	546	10.8	51.4	22	2	US-08-440-103-7	Sequence 7, Appli
c	547	10.8	51.4	22	2	US-08-440-542-7	Sequence 7, Appli
c	548	10.8	51.4	22	2	US-08-231-368-7	Sequence 7, Appli
c	549	10.8	51.4	22	2	US-08-440-210-7	Sequence 7, Appli

c 550	10.8	51.4	22	3	US-09-046-604-7	Sequence 7, Appli
c 551	10.8	51.4	23	2	US-08-255-264-7	Sequence 7, Appli
c 552	10.8	51.4	25	2	US-07-771-022F-9	Sequence 9, Appli
c 553	10.8	51.4	25	3	US-09-538-709-475	Sequence 475, App
c 554	10.8	51.4	25	3	US-09-866-108A-11279	Sequence 11279, A
c 555	10.8	51.4	25	3	US-09-866-108A-11280	Sequence 11280, A
c 556	10.8	51.4	25	3	US-09-396-196G-5963	Sequence 5963, Ap
c 557	10.8	51.4	25	3	US-09-396-196G-5969	Sequence 5969, Ap
c 558	10.8	51.4	25	3	US-09-396-196G-5974	Sequence 5974, Ap
c 559	10.8	51.4	25	3	US-09-396-196G-5975	Sequence 5975, Ap
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562	10.8	51.4	25	3	US-09-396-196G-14583	Sequence 14583, A
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c 565	10.8	51.4	25	3	US-09-396-196G-18066	Sequence 18066, A
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c 568	10.8	51.4	25	3	US-09-396-196G-28515	Sequence 28515, A
c 569	10.8	51.4	25	3	US-09-396-196G-32494	Sequence 32494, A
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573	10.8	51.4	25	3	US-09-396-196G-53046	Sequence 53046, A
574	10.8	51.4	25	3	US-09-396-196G-69807	Sequence 69807, A
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576	10.8	51.4	25	3	US-09-396-196G-73237	Sequence 73237, A
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593	10.8	51.4	25	3	US-09-396-196G-125734	Sequence 125734,
594	10.8	51.4	25	3	US-09-396-196G-125735	Sequence 125735,
595	10.8	51.4	25	3	US-09-396-196G-125736	Sequence 125736,
596	10.8	51.4	25	3	US-09-396-196G-126215	Sequence 126215,
c 597	10.8	51.4	25	3	US-09-999-833A-240	Sequence 240, App
c 598	10.8	51.4	25	3	US-10-020-445A-240	Sequence 240, App
c 599	10.8	51.4	25	4	US-10-099-322-317	Sequence 317, App
c 600	10.8	51.4	25	4	US-09-978-189-240	Sequence 240, App
c 601	10.8	51.4	25	4	US-10-017-085A-240	Sequence 240, App
c 602	10.8	51.4	25	5	US-10-145-129A-240	Sequence 240, App
c 603	10.8	51.4	25	5	US-10-013-929A-240	Sequence 240, App
c 604	10.8	51.4	25	5	US-10-013-917A-240	Sequence 240, App
c 605	10.8	51.4	26	2	US-08-049-264C-56	Sequence 56, Appl
c 606	10.8	51.4	26	2	US-08-476-562-56	Sequence 56, Appl
c 607	10.8	51.4	26	2	US-08-479-723A-56	Sequence 56, Appl
608	10.8	51.4	26	3	US-09-589-733C-33	Sequence 33, Appl
c 609	10.8	51.4	26	5	US-10-114-270-316	Sequence 316, App
c 610	10.8	51.4	26	7	PCT-US94-04310-56	Sequence 56, Appl

c 611	10.8	51.4	27	2	US-08-112-817C-3	Sequence 3, Appli
612	10.8	51.4	27	2	US-08-363-585-13	Sequence 13, Appl
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c 614	10.8	51.4	27	7	PCT-US96-00995-8	Sequence 8, Appli
615	10.8	51.4	28	3	US-09-417-197-19	Sequence 19, Appl
c 616	10.8	51.4	29	3	US-09-304-232-843	Sequence 843, App
c 617	10.8	51.4	30	2	US-08-426-819A-26	Sequence 26, Appl
618	10.8	51.4	30	3	US-09-117-708-10	Sequence 10, Appl
c 619	10.8	51.4	30	3	US-09-117-708-11	Sequence 11, Appl
c 620	10.8	51.4	30	3	US-09-578-634A-32	Sequence 32, Appl
c 621	10.8	51.4	30	5	US-09-826-206A-9	Sequence 9, Appli
622	10.6	50.5	17	3	US-08-713-742-7	Sequence 7, Appli
623	10.6	50.5	17	3	US-09-372-856-7	Sequence 7, Appli
624	10.6	50.5	17	3	US-09-688-394-7	Sequence 7, Appli
c 625	10.6	50.5	17	3	US-09-866-108A-499	Sequence 499, App
c 626	10.6	50.5	17	3	US-09-866-108A-500	Sequence 500, App
c 627	10.6	50.5	17	3	US-09-404-912-56	Sequence 56, Appl
628	10.6	50.5	17	3	US-09-934-138B-7	Sequence 7, Appli
629	10.6	50.5	18	2	US-08-532-979-3	Sequence 3, Appli
630	10.6	50.5	18	2	US-08-532-979-8	Sequence 8, Appli
631	10.6	50.5	18	3	US-09-339-180A-1	Sequence 1, Appli
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633	10.6	50.5	18	3	US-09-777-526A-21	Sequence 21, Appl
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635	10.6	50.5	19	2	US-08-331-389A-41	Sequence 41, Appl
636	10.6	50.5	19	3	US-09-192-657A-41	Sequence 41, Appl
c 637	10.6	50.5	19	3	US-09-578-634A-1	Sequence 1, Appli
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c 639	10.6	50.5	20	3	US-09-444-053-72	Sequence 72, Appl
640	10.6	50.5	20	3	US-09-476-256-6	Sequence 6, Appli
641	10.6	50.5	20	3	US-09-476-256-15	Sequence 15, Appl
c 642	10.6	50.5	20	3	US-09-742-703-36	Sequence 36, Appl
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644	10.6	50.5	20	3	US-09-517-467B-82	Sequence 82, Appl
645	10.6	50.5	20	3	US-09-422-978-11616	Sequence 11616, A
646	10.6	50.5	20	3	US-09-198-452A-2940	Sequence 2940, Ap
647	10.6	50.5	20	3	US-09-081-385-72	Sequence 72, Appl
648	10.6	50.5	20	3	US-09-589-560B-46	Sequence 46, Appl
649	10.6	50.5	20	3	US-09-966-451-31	Sequence 31, Appl
c 650	10.6	50.5	20	3	US-09-731-457B-36	Sequence 36, Appl
651	10.6	50.5	20	3	US-09-752-639-72	Sequence 72, Appl
652	10.6	50.5	20	3	US-09-712-813-72	Sequence 72, Appl
653	10.6	50.5	20	3	US-09-700-354A-72	Sequence 72, Appl
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655	10.6	50.5	20	10	5487993-14	Patent No. 5487993
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658	10.6	50.5	21	2	US-08-331-389A-43	Sequence 43, Appl
c 659	10.6	50.5	21	2	US-08-288-508C-37	Sequence 37, Appl
c 660	10.6	50.5	21	3	US-08-289-222E-50	Sequence 50, Appl
c 661	10.6	50.5	21	3	US-09-218-176-29	Sequence 29, Appl
662	10.6	50.5	21	3	US-09-192-657A-42	Sequence 42, Appl
663	10.6	50.5	21	3	US-09-192-657A-43	Sequence 43, Appl
c 664	10.6	50.5	21	3	US-09-054-526B-50	Sequence 50, Appl
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666	10.6	50.5	21	3	US-09-495-714C-8	Sequence 8, Appli
667	10.6	50.5	21	3	US-09-657-472-877	Sequence 877, App
c 668	10.6	50.5	21	3	US-09-657-472-2053	Sequence 2053, Ap
c 669	10.6	50.5	21	3	US-09-386-450D-37	Sequence 37, Appl
c 670	10.6	50.5	21	5	US-09-684-383-29	Sequence 29, Appl
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673	10.6	50.5	22	2	US-08-362-652-59	Sequence 59, Appl
c 674	10.6	50.5	22	2	US-08-887-480-23	Sequence 23, Appl
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676	10.6	50.5	22	2	US-08-482-293A-59	Sequence 59, Appl
677	10.6	50.5	22	2	US-08-943-363-59	Sequence 59, Appl
c 678	10.6	50.5	22	2	US-08-722-187-23	Sequence 23, Appl
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681	10.6	50.5	22	3	US-09-350-259-59	Sequence 59, Appl
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c 683	10.6	50.5	22	7	PCT-US95-04712-23	Sequence 23, Appl
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685	10.6	50.5	24	3	US-09-475-947A-293	Sequence 293, App
686	10.6	50.5	24	3	US-09-371-307-15	Sequence 15, Appl
687	10.6	50.5	24	3	US-10-314-048A-152	Sequence 152, App
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694	10.6	50.5	25	3	US-09-396-196G-5036	Sequence 5036, Ap
c 695	10.6	50.5	25	3	US-09-396-196G-13200	Sequence 13200, A
c 696	10.6	50.5	25	3	US-09-396-196G-13201	Sequence 13201, A
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c 717	10.6	50.5	25	3	US-09-396-196G-62043	Sequence 62043, A
c 718	10.6	50.5	25	3	US-09-396-196G-62044	Sequence 62044, A
c 719	10.6	50.5	25	3	US-09-396-196G-62045	Sequence 62045, A
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c 729	10.6	50.5	25	3	US-09-396-196G-127748	Sequence 127748,
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c 731	10.6	50.5	27	3	US-08-584-040-739	Sequence 739, App
c 732	10.6	50.5	27	3	US-08-584-040-971	Sequence 971, App

c 733	10.6	50.5	27	3	US-08-584-040-6861	Sequence 6861, Ap
c 734	10.6	50.5	27	3	US-08-584-040-6908	Sequence 6908, Ap
c 735	10.6	50.5	27	3	US-08-679-645-1123	Sequence 1123, Ap
736	10.6	50.5	29	2	US-08-814-567A-10	Sequence 10, Appl
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c 738	10.6	50.5	30	2	US-08-700-757-87	Sequence 87, Appl
739	10.6	50.5	30	3	US-09-105-697-11	Sequence 11, Appl
740	10.6	50.5	30	3	US-09-146-631-11	Sequence 11, Appl
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c 742	10.4	49.5	13	4	US-09-341-700A-1290	Sequence 1290, Ap
743	10.4	49.5	15	2	US-08-291-932A-222	Sequence 222, App
c 744	10.4	49.5	17	3	US-09-474-432B-599	Sequence 599, App
c 745	10.4	49.5	17	3	US-09-476-387-598	Sequence 598, App
c 746	10.4	49.5	17	3	US-09-404-912-261	Sequence 261, App
c 747	10.4	49.5	17	5	US-10-138-674B-9096	Sequence 9096, Ap
748	10.4	49.5	18	2	US-08-466-860-51	Sequence 51, Appl
c 749	10.4	49.5	18	3	US-09-156-807-15	Sequence 15, Appl
c 750	10.4	49.5	18	3	US-09-199-859-15	Sequence 15, Appl
751	10.4	49.5	18	3	US-08-472-040A-51	Sequence 51, Appl
752	10.4	49.5	18	3	US-08-276-776-51	Sequence 51, Appl
753	10.4	49.5	18	3	US-08-471-209-51	Sequence 51, Appl
754	10.4	49.5	18	3	US-09-167-109-122	Sequence 122, App
c 755	10.4	49.5	18	3	US-09-387-341-117	Sequence 117, App
756	10.4	49.5	18	3	US-09-422-978-4482	Sequence 4482, Ap
c 757	10.4	49.5	18	3	US-09-856-747-15	Sequence 15, Appl
c 758	10.4	49.5	18	3	US-08-925-214-4	Sequence 4, Appli
c 759	10.4	49.5	19	2	US-08-899-811-4	Sequence 4, Appli
c 760	10.4	49.5	19	3	US-09-591-366-66	Sequence 66, Appl
c 761	10.4	49.5	20	2	US-08-889-296A-50	Sequence 50, Appl
762	10.4	49.5	20	2	US-08-899-811-5	Sequence 5, Appli
c 763	10.4	49.5	20	3	US-08-961-469A-57	Sequence 57, Appl
c 764	10.4	49.5	20	3	US-09-128-494-50	Sequence 50, Appl
c 765	10.4	49.5	20	3	US-09-049-020-4	Sequence 4, Appli
766	10.4	49.5	20	3	US-08-855-583A-25	Sequence 25, Appl
c 767	10.4	49.5	20	3	US-09-517-584A-54	Sequence 54, Appl
768	10.4	49.5	20	3	US-09-619-444-25	Sequence 25, Appl
769	10.4	49.5	20	3	US-09-313-932-330	Sequence 330, App
770	10.4	49.5	20	3	US-09-313-932-455	Sequence 455, App
c 771	10.4	49.5	20	3	US-09-177-249-322	Sequence 322, App
772	10.4	49.5	20	3	US-09-270-542-95	Sequence 95, Appl
773	10.4	49.5	20	3	US-08-887-497A-12	Sequence 12, Appl
774	10.4	49.5	20	3	US-08-471-974-12	Sequence 12, Appl
775	10.4	49.5	20	3	US-09-198-452A-6695	Sequence 6695, Ap
c 776	10.4	49.5	20	3	US-09-575-554-50	Sequence 50, Appl
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c 778	10.4	49.5	20	3	US-09-674-824-5	Sequence 5, Appli
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ALIGNMENTS

RESULT 1
US-07-702-163B-2
; Sequence 2, Application US/07702163B
; Patent No. 5271941
;   GENERAL INFORMATION:
;   APPLICANT: Yoon S. Cho-Chung
;   TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR TREATMENT OF CANCER
;   NUMBER OF SEQUENCES: 7
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Sterne, Kessler, Goldstein and Fox
;   STREET: 1225 Connecticut Avenue, N.W.
;   CITY: Washington
;   STATE: D.C.
;   COUNTRY: USA
;   ZIP: 20036
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatable
;   OPERATING SYSTEM: DOS
;   SOFTWARE: PatentIn
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/07/702,163B
;   FILING DATE: 19910520
;   CLASSIFICATION: 424
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: none
;   FILING DATE: none
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Robert W. Esmond
;   REGISTRATION NUMBER: 32,893
;   REFERENCE/DOCKET NUMBER: 1350.0040004
;   TELECOMMUNICATION INFORMATION:

```
;     TELEPHONE:  (202)466-0800
;     TELEFAX:  (202)833-8716
;     TELEX:  248636 SS1
;  INFORMATION FOR SEQ ID NO: · 2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH:  18 bases
;     TYPE:  NUCLEIC ACID
;     STRANDEDNESS:  Single
;     TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA
;     ANTI-SENSE:  yes
US-07-702-163B-2

  Query Match              81.0%;  Score 17;  DB 2;  Length 18;
  Best Local Similarity    76.5%;  Pred. No. 1.4e+02;
  Matches   13;  Conservative   4;  Mismatches    0;  Indels    0;  Gaps   0;


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Db         1 GCGTGCCTCCTCACTGG 17
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RESULT 2
US-08-060-984-2
```
; Sequence 2, Application US/08060984
; Patent No. 5627158
;  GENERAL INFORMATION:
;     APPLICANT:  Yoon S. Cho-Chung
;     TITLE OF INVENTION:   ANTISENSE OLIGONUCLEOTIDES FOR TREATMENT OF CANCER
;     NUMBER OF SEQUENCES:  7
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein and Fox
;       STREET:  1225 Connecticut Avenue, N.W.
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  USA
;       ZIP:  20036
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatable
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  PatentIn
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/060,984
;       FILING DATE:  19930514
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  07/702,163
;       FILING DATE:  May 20, 1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Robert W. Esmond
;       REGISTRATION NUMBER:  32,893
;       REFERENCE/DOCKET NUMBER:  1350.0050003
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202)466-0800
;       TELEFAX:  (202)833-8716
;       TELEX:  248636 SS1
;  INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  18 bases
;       TYPE:  NUCLEIC ACID
```

```
;       STRANDEDNESS:  Single
;       TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA
;       ANTI-SENSE:  yes
US-08-060-984-2

   Query Match              81.0%;   Score 17;   DB 2;   Length 18;
   Best Local Similarity    76.5%;   Pred. No. 1.4e+02;
   Matches   13;  Conservative    4;  Mismatches    0;   Indels    0;   Gaps    0;


Qy         5 GCGUGCCUCCUCACUGG 21
             |||:|||:||:|||:||
Db         1 GCGTGCCTCCTCACTGG 17
```

RESULT 3
US-08-383-742-2
; Sequence 2, Application US/08383742
; Patent No. 5691317
; GENERAL INFORMATION:
;   APPLICANT: Cho-Chung, Yoon Sang
;   TITLE OF INVENTION: Antisense Oligonucleotides for the Treatment of
;   TITLE OF INVENTION: Cancer
;   NUMBER OF SEQUENCES: 7
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
;   STREET: 1100 New York Ave., N.W.
;   CITY: Washington
;   STATE: D.C.
;   COUNTRY: USA
;   ZIP: 20005
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatable
;   OPERATING SYSTEM: DOS
;   SOFTWARE: PatentIn
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/383,742
;   FILING DATE: herewith
;   CLASSIFICATION: 514
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/060,984
;   FILING DATE: May 14, 1993
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Robert W. Esmond
;   REGISTRATION NUMBER: 32,893
;   REFERENCE/DOCKET NUMBER: 1350.0010004
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (202) 371-2600
;   TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 2:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 bases
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA
;   ANTI-SENSE: YES
US-08-383-742-2

   Query Match   81.0%;   Score 17;   DB 2;   Length 18;

Best Local Similarity   76.5%;   Pred. No. 1.4e+02;
  Matches   13;   Conservative   4;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 4
US-08-532-979-1
; Sequence 1, Application US/08532979
; Patent No. 5969117
;   GENERAL INFORMATION:
;   APPLICANT: Agrawal, Sudhir
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC
;   TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Lappin & Kusmer
;   STREET: 200 State Street
;   CITY: Boston
;   STATE: MA
;   COUNTRY: USA
;   ZIP: 02109
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/532,979
;   FILING DATE:
;   CLASSIFICATION: 536
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Kerner, Ann-Louise
;   REGISTRATION NUMBER: 33,523
;   REFERENCE/DOCKET NUMBER: HYZ-050
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-330-1300
;   TELEFAX: 617-330-1311
;   INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: YES
US-08-532-979-1

  Query Match   81.0%;   Score 17;   DB 2;   Length 18;
  Best Local Similarity   76.5%;   Pred. No. 1.4e+02;
  Matches   13;   Conservative   4;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 5

US-08-532-979-4
; Sequence 4, Application US/08532979
; Patent No. 5969117
; GENERAL INFORMATION:
;   APPLICANT: Agrawal, Sudhir
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC
;   TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Lappin & Kusmer
;   STREET: 200 State Street
;   CITY: Boston
;   STATE: MA
;   COUNTRY: USA
;   ZIP: 02109
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/532,979
;   FILING DATE:
;   CLASSIFICATION: 536
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Kerner, Ann-Louise
;   REGISTRATION NUMBER: 33,523
;   REFERENCE/DOCKET NUMBER: HYZ-050
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-330-1300
;   TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 4:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA/RNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: YES
US-08-532-979-4

    Query Match   81.0%;   Score 17; DB 2; Length 18;
    Best Local Similarity 88.2%;   Pred. No. 1.4e+02;
    Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17

RESULT 6
US-08-532-979-6
; Sequence 6, Application US/08532979
; Patent No. 5969117
; GENERAL INFORMATION:
;   APPLICANT: Agrawal, Sudhir
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC
;   TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:

```
;      ADDRESSEE:  Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/532,979
;      FILING DATE:
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kerner, Ann-Louise
;      REGISTRATION NUMBER:  33,523
;      REFERENCE/DOCKET NUMBER:  HYZ-050
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA/RNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  YES
US-08-532-979-6

   Query Match            81.0%;  Score 17;  DB 2;  Length 18;
   Best Local Similarity  88.2%;  Pred. No. 1.4e+02;
   Matches   15;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||:||||||||||:||
Db          1 GCGTGCCUCCUCACTGG 17



RESULT 7
US-09-540-699-1
; Sequence 1, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
;  APPLICANT:  Agrawal, Sudhir
;  APPLICANT:  Kandimalla, Ekambar R.
;  TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;  FILE REFERENCE:  99,128-B
;  CURRENT APPLICATION NUMBER:  US/09/540,699
;  CURRENT FILING DATE:  2000-03-31
;  PRIOR APPLICATION NUMBER:  US 60/127,138
;  PRIOR FILING DATE:  1999-03-31
;  PRIOR APPLICATION NUMBER:  US 60/174,642
;  PRIOR FILING DATE:  2000-01-05
;  NUMBER OF SEQ ID NOS:  26
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;    LENGTH:  18
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Qy

Db

RE
US

http

Best Local Similarity   88.2%; Pred. No. 1.4e+02;
Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

```
    5 GCGUGCCUCCUCACUGG 21
      |||||||:||:||||||
    1 GCGUGCCTCCTCACUGG 17
```

SULT 9
-09-321-249-20

```
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
OTHER INFORMATION: that is complementary to the mRNA of regulatory
OTHER INFORMATION: subunit of protein kinase A
NAME/KEY: misc_feature
LOCATION: (1)..(18)
OTHER INFORMATION: /note= "All phosphorothioate internucleotide
OTHER INFORMATION: linkages"
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-09-540-699-1

Query Match   81.0%; Score 17; DB 3; Length 18;
Best Local Similarity   76.5%; Pred. No. 1.4e+02;
Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```
    5 GCGUGCCUCCUCACUGG 21
      |||:|||:||:|||:||
    1 GCGTGCCTCCTCACTGG 17
```

SULT 8
-09-587-934B-20
Sequence 20, Application US/09587934B
Patent No. 6608035
GENERAL INFORMATION:
 APPLICANT: AGRAWAL, Sudhir
 APPLICANT: DIASIO, Robert B.
 APPLICANT: ZHANG, Ruiwen
 TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
 FILE REFERENCE: HYZ-030CPCN2(47508-734)
 CURRENT APPLICATION NUMBER: US/09/587,934B
 CURRENT FILING DATE: 2000-06-06
 PRIOR APPLICATION NUMBER: US 08/758,005
 PRIOR FILING DATE: 1996-11-27
 PRIOR APPLICATION NUMBER: US 08/709,910
 PRIOR FILING DATE: 1996-09-09
 PRIOR APPLICATION NUMBER: US 08/328,520
 PRIOR FILING DATE: 1994-10-25
 NUMBER OF SEQ ID NOS: 21
 SOFTWARE: PatentIn version 3.0
SEQ ID NO 20
  LENGTH: 18
  TYPE: DNA
  ORGANISM: Artificial Sequence
  FEATURE:
  OTHER INFORMATION: Antisense
  OTHER INFORMATION: DNA/RNA
-09-587-934B-20
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; Sequence 20, Application US/09321249
; Patent No. 6645943
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; APPLICANT: DIASIO, Robert H.
; APPLICANT: ZHANG, Ruiwen
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
; FILE REFERENCE: HYZ-030CIPCN (47508-437)
; CURRENT APPLICATION NUMBER: US/09/321,249
; CURRENT FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: US 08/758,005
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 08/709,910.
; PRIOR FILING DATE: 1996-09-09
; PRIOR APPLICATION NUMBER: US 08/328,520
; PRIOR FILING DATE: 1994-10-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense
;   OTHER INFORMATION: DNA/RNA
US-09-321-249-20

    Query Match   81.0%; Score 17; DB 3; Length 18;
    Best Local Similarity   88.2%; Pred. No. 1.4e+02;
    Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
             |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17

RESULT 10
US-09-835-370-39
; Sequence 39, Application US/09835370
; Patent No. 6777544
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: WILL, DAVID W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,370
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: nucleotide
;   OTHER INFORMATION: base sequence of PNA derivatives that bind to
;   OTHER INFORMATION: viral and cellular targets
US-09-835-370-39

Query Match   81.0%; Score 17; DB 3; Length 18;
Best Local Similarity   76.5%; Pred. No. 1.4e+02;
Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
           |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 11
US-09-108-673A-39
; Sequence 39, Application US/09108673A
; Patent No. 6887906
;   GENERAL INFORMATION:
;   APPLICANT: Ching-Leou Teng and Greg Hardee
;   TITLE OF INVENTION: Compositions and Methods for the Delivery of
;   TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal
;   NUMBER OF SEQUENCES: 132
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP
;   STREET: One Liberty Place, 46th Floor
;   CITY: Philadelphia
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19103
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
;   COMPUTER: IBM PS/2
;   OPERATING SYSTEM: PC-DOS
;   SOFTWARE: WORDPERFECT 6.1
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/108,673A
;   FILING DATE: July 1, 1998
;   CLASSIFICATION: 514
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/886,829
;   FILING DATE: 01-JUL-1997
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Paul K. Legaard
;   REGISTRATION NUMBER: 38,534
;   REFERENCE/DOCKET NUMBER: ISIS-3105
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (215) 568-3100
;   TELEFAX: (215) 568 3439
;   INFORMATION FOR SEQ ID NO: 39:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: Nucleic Acid
;   STRANDEDNESS: Single
;   TOPOLOGY: Linear
;   ANTI-SENSE: Yes
;   PUBLICATION INFORMATION:
;   DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:1)
;   FILING DATE: 19-SEP-1996
;   PUBLICATION DATE: 27-MAR-1997
US-09-108-673A-39

Query Match   81.0%; Score 17; DB 3; Length 18;
Best Local Similarity   76.5%; Pred. No. 1.4e+02;
Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```
Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
```

RESULT 12
US-09-108-673A-40
; Sequence 40, Application US/09108673A
; Patent No. 6887906
;   GENERAL INFORMATION:
;   APPLICANT: Ching-Leou Teng and Greg Hardee
;   TITLE OF INVENTION: Compositions and Methods for the Delivery of
;   TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal
;   NUMBER OF SEQUENCES: 132
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP
;   STREET: One Liberty Place, 46th Floor
;   CITY: Philadelphia
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19103
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
;   COMPUTER: IBM PS/2
;   OPERATING SYSTEM: PC-DOS
;   SOFTWARE: WORDPERFECT 6.1
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/108,673A
;   FILING DATE: July 1, 1998
;   CLASSIFICATION: 514
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/886,829
;   FILING DATE: 01-JUL-1997
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Paul K. Legaard
;   REGISTRATION NUMBER: 38,534
;   REFERENCE/DOCKET NUMBER: ISIS-3105
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (215) 568-3100
;   TELEFAX: (215) 568 3439
;   INFORMATION FOR SEQ ID NO: 40:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: Nucleic Acid
;   STRANDEDNESS: Single
;   TOPOLOGY: Linear
;   ANTI-SENSE: Yes
;   PUBLICATION INFORMATION:
;   DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:4)
;   FILING DATE: 19-SEP-1996
;   PUBLICATION DATE: 27-MAR-1997
US-09-108-673A-40

  Query Match   81.0%; Score 17; DB 3; Length 18;
  Best Local Similarity 88.2%; Pred. No. 1.4e+02;
  Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

```
Qy        5 GCGUGCCUCCUCACUGG 21
            |||||||:||:||||||
Db        1 GCGUGCCTCCTCACUGG 17
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RESULT 13
US-09-108-673A-41
; Sequence 41, Application US/09108673A
; Patent No. 6887906
; GENERAL INFORMATION:
;   APPLICANT: Ching-Leou Teng and Greg Hardee
;   TITLE OF INVENTION: Compositions and Methods for the Delivery of
;   TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal
;   NUMBER OF SEQUENCES: 132
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP
;   STREET: One Liberty Place, 46th Floor
;   CITY: Philadelphia
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19103
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
;   COMPUTER: IBM PS/2
;   OPERATING SYSTEM: PC-DOS
;   SOFTWARE: WORDPERFECT 6.1
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/108,673A
;   FILING DATE: July 1, 1998
;   CLASSIFICATION: 514
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/886,829
;   FILING DATE: 01-JUL-1997
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Paul K. Legaard
;   REGISTRATION NUMBER: 38,534
;   REFERENCE/DOCKET NUMBER: ISIS-3105
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (215) 568-3100
;   TELEFAX: (215) 568 3439
; INFORMATION FOR SEQ ID NO: 41:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: Nucleic Acid
;   STRANDEDNESS: Single
;   TOPOLOGY: Linear
;   ANTI-SENSE: Yes
;   PUBLICATION INFORMATION:
;   DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:6)
;   FILING DATE: 19-SEP-1996
;   PUBLICATION DATE: 27-MAR-1997
US-09-108-673A-41

   Query Match   81.0%; Score 17; DB 3; Length 18;
   Best Local Similarity 88.2%; Pred. No. 1.4e+02;
   Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:||||||||||:||
Db   1 GCGTGCCUCCUCACTGG 17

RESULT 14
US-09-835-371-39
; Sequence 39, Application US/09835371

; Patent No. 6905820
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, Eugen
; APPLICANT: BREIPOHL, Gerhard
; APPLICANT: WILL, David W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1743 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,371
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: base sequence
; OTHER INFORMATION: of PNA targeting CMV
US-09-835-371-39

    Query Match   81.0%; Score 17; DB 3; Length 18;
    Best Local Similarity 76.5%; Pred. No. 1.4e+02;
    Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              | | | : | | | : | | : | | | : | |
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 15
US-09-777-526A-20
; Sequence 20, Application US/09777526A
; Patent No. 6936593
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; APPLICANT: DIASIO, Robert H.
; APPLICANT: ZHANG, Ruiwen
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
; FILE REFERENCE: HYZ-030CPCN3 (47508-518)
; CURRENT APPLICATION NUMBER: US/09/777,526A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 08/758,005
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 08/709,910
; PRIOR FILING DATE: 1996-09-09
; PRIOR APPLICATION NUMBER: US 08/328,520
; PRIOR FILING DATE: 1994-10-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense
; OTHER INFORMATION: DNA/RNA
US-09-777-526A-20

    Query Match   81.0%; Score 17; DB 3; Length 18;
    Best Local Similarity 88.2%; Pred. No. 1.4e+02;

```
Matches    15;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db          1 GCGUGCCTCCTCACUGG 17


RESULT 16
US-09-167-375-15
; Sequence 15, Application US/09167375B
; Patent No. 6291438
; GENERAL INFORMATION:
;  APPLICANT: Jui H. Wang
;  TITLE OF INVENTION: Antiviral anticancer poly-substituted phenyl derivatized oligor
;  TITLE OF INVENTION: methods for their use.
;  FILE REFERENCE: WNGJ 2002 (CIP-1)
;  CURRENT APPLICATION NUMBER: US/09/167,375B
;  CURRENT FILING DATE: 1998-10-06
;  NUMBER OF SEQ ID NOS: 26
; SEQ ID NO 15
;   LENGTH: 20
;   TYPE: RNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   LOCATION: Portion of the RI/PKA gene
;   OTHER INFORMATION: Complementary to a portion of the RI/PKA gene
US-09-167-375-15

  Query Match          81.0%;  Score 17;  DB 3;  Length 20;
  Best Local Similarity  100.0%;  Pred. No. 1.4e+02;
  Matches    17;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 GCGUGCCUCCUCACUGG 21
              |||||||||||||||||
Db          3 GCGUGCCUCCUCACUGG 19


RESULT 17
US-09-167-375-18/c
; Sequence 18, Application US/09167375B
; Patent No. 6291438
; GENERAL INFORMATION:
;  APPLICANT: Jui H. Wang
;  TITLE OF INVENTION: Antiviral anticancer poly-substituted phenyl derivatized oligor
;  TITLE OF INVENTION: methods for their use.
;  FILE REFERENCE: WNGJ 2002 (CIP-1)
;  CURRENT APPLICATION NUMBER: US/09/167,375B
;  CURRENT FILING DATE: 1998-10-06
;  NUMBER OF SEQ ID NOS: 26
; SEQ ID NO 18
;   LENGTH: 20
;   TYPE: RNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   LOCATION: Portion of the RI/PKA gene
;   OTHER INFORMATION: Sense sequence
US-09-167-375-18

  Query Match          81.0%;  Score 17;  DB 3;  Length 20;
  Best Local Similarity  76.5%;  Pred. No. 1.4e+02;
  Matches    13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy           5 GCGUGCCUCCUCACUGG 21
               |||:|||:||:|||:||
Db          20 GCGTGCCTCCTCACTGG 4
```

RESULT 18
US-09-540-699-6
; Sequence 6, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 23
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;   OTHER INFORMATION: that is complementary to the mRNA of regulatory
;   OTHER INFORMATION: subunit of protein kinase A
;   NAME/KEY: misc_feature
;   LOCATION: (19)..(23)
;   OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;   OTHER INFORMATION: right."
;   NAME/KEY: misc_feature
;   LOCATION: (18)..(19)
;   OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(18)
;   OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;   OTHER INFORMATION: linkages"
US-09-540-699-6

  Query Match   81.0%; Score 17; DB 3; Length 23;
  Best Local Similarity 76.5%; Pred. No. 1.4e+02;
  Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```
Qy           5 GCGUGCCUCCUCACUGG 21
               |||:|||:||:|||:||
Db           1 GCGTGCCTCCTCACTGG 17
```

RESULT 19
US-09-540-699-10
; Sequence 10, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases

```
;   FILE REFERENCE:  99,128-B
;   CURRENT APPLICATION NUMBER: US/09/540,699
;   CURRENT FILING DATE:  2000-03-31
;   PRIOR APPLICATION NUMBER:  US 60/127,138
;   PRIOR FILING DATE:  1999-03-31
;   PRIOR APPLICATION NUMBER:  US 60/174,642
;   PRIOR FILING DATE:  2000-01-05
;   NUMBER OF SEQ ID NOS:  26
;   SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 10
;    LENGTH: 23
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;    OTHER INFORMATION: that is complementary to the mRNA of regulatory
;    OTHER INFORMATION: subunit of protein kinase A
;    NAME/KEY: misc_feature
;    LOCATION: (19)..(23)
;    OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;    OTHER INFORMATION: right."
;    NAME/KEY: misc_feature
;    LOCATION: (18)..(19)
;    OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(18)
;    OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;    OTHER INFORMATION: linkages"
US-09-540-699-10

  Query Match              81.0%;  Score 17;  DB 3;  Length 23;
  Best Local Similarity    76.5%;  Pred. No. 1.4e+02;
  Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17


RESULT 20
US-09-540-699-4
; Sequence 4, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
;  APPLICANT:  Agrawal, Sudhir
;  APPLICANT:  Kandimalla, Ekambar R.
;  TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;  FILE REFERENCE:  99,128-B
;  CURRENT APPLICATION NUMBER: US/09/540,699
;  CURRENT FILING DATE:  2000-03-31
;  PRIOR APPLICATION NUMBER:  US 60/127,138
;  PRIOR FILING DATE:  1999-03-31
;  PRIOR APPLICATION NUMBER:  US 60/174,642
;  PRIOR FILING DATE:  2000-01-05
;  NUMBER OF SEQ ID NOS:  26
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 4
;    LENGTH: 24
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
```

```
;    OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;    OTHER INFORMATION: that is complementary to the mRNA of regulatory
;    OTHER INFORMATION: subunit of protein kinase A
;    NAME/KEY: misc_feature
;    LOCATION: (19)..(24)
;    OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;    OTHER INFORMATION: right."
;    NAME/KEY: misc_feature
;    LOCATION: (18)..(19)
;    OTHER INFORMATION: /note=  "3'->3' internucleotide linkage"
US-09-540-699-4

    Query Match              81.0%;  Score 17;  DB 3;  Length 24;
    Best Local Similarity    76.5%;  Pred. No. 1.4e+02;
    Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17


RESULT 21
US-09-540-699-7
; Sequence 7, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
;   APPLICANT:  Agrawal, Sudhir
;   APPLICANT:  Kandimalla, Ekambar R.
;   TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;   FILE REFERENCE:  99,128-B
;   CURRENT APPLICATION NUMBER: US/09/540,699
;   CURRENT FILING DATE:  2000-03-31
;   PRIOR APPLICATION NUMBER:  US 60/127,138
;   PRIOR FILING DATE:  1999-03-31
;   PRIOR APPLICATION NUMBER:  US 60/174,642
;   PRIOR FILING DATE:  2000-01-05
;   NUMBER OF SEQ ID NOS:  26
;   SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 7
;   LENGTH: 24
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;   OTHER INFORMATION: that is complementary to the mRNA of regulatory
;   OTHER INFORMATION: subunit of protein kinase A
;   NAME/KEY: misc_feature
;   LOCATION: (19)..(24)
;   OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;   OTHER INFORMATION: right."
;   NAME/KEY: misc_feature
;   LOCATION: (18)..(19)
;   OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(18)
;   OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;   OTHER INFORMATION: linkages"
US-09-540-699-7

    Query Match              81.0%;  Score 17;  DB 3;  Length 24;
    Best Local Similarity    76.5%;  Pred. No. 1.4e+02;
```

Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 22
US-09-540-699-8
; Sequence 8, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
;. PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;   OTHER INFORMATION: that is complementary to the mRNA of regulatory
;   OTHER INFORMATION: subunit of protein kinase A
;   NAME/KEY: misc_feature
;   LOCATION: (19)..(25)
;   OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;   OTHER INFORMATION: right."
;   NAME/KEY: misc_feature
;   LOCATION: (18)..(19)
;   OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(18)
;   OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;   OTHER INFORMATION: linkages"
US-09-540-699-8

   Query Match   81.0%; Score 17; DB 3; Length 25;
   Best Local Similarity   76.5%; Pred. No. 1.4e+02;
   Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 23
US-09-540-699-11
; Sequence 11, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.

```
;   TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;   FILE REFERENCE:  99,128-B
;   CURRENT APPLICATION NUMBER: US/09/540,699
;   CURRENT FILING DATE:  2000-03-31
;   PRIOR APPLICATION NUMBER:  US 60/127,138
;   PRIOR FILING DATE:  1999-03-31
;   PRIOR APPLICATION NUMBER:  US 60/174,642
;   PRIOR FILING DATE:  2000-01-05
;   NUMBER OF SEQ ID NOS:  26
;   SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 11
;     LENGTH: 25
;     TYPE: DNA
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;     OTHER INFORMATION: that is complementary to the mRNA of regulatory
;     OTHER INFORMATION: subunit of protein kinase A
;     NAME/KEY: misc_feature
;     LOCATION: (19)..(25)
;     OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;     OTHER INFORMATION: right."
;     NAME/KEY: misc_feature
;     LOCATION: (18)..(19)
;     OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;     NAME/KEY: misc_feature
;     LOCATION: (1)..(18)
;     OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;     OTHER INFORMATION: linkages"
US-09-540-699-11

   Query Match            81.0%;  Score 17;  DB 3;  Length 25;
   Best Local Similarity  76.5%;  Pred. No. 1.4e+02;
   Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17


RESULT 24
US-09-540-699-9
; Sequence 9, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
;  APPLICANT:  Agrawal, Sudhir
;  APPLICANT:  Kandimalla, Ekambar R.
;  TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;  FILE REFERENCE:  99,128-B
;  CURRENT APPLICATION NUMBER: US/09/540,699
;  CURRENT FILING DATE:  2000-03-31
;  PRIOR APPLICATION NUMBER:  US 60/127,138
;  PRIOR FILING DATE:  1999-03-31
;  PRIOR APPLICATION NUMBER:  US 60/174,642
;  PRIOR FILING DATE:  2000-01-05
;  NUMBER OF SEQ ID NOS:  26
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 9
;     LENGTH: 26
;     TYPE: DNA
;     ORGANISM: Artificial Sequence
```

```
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;    OTHER INFORMATION: that is complementary to the mRNA of regulatory
;    OTHER INFORMATION: subunit of protein kinase A
;    NAME/KEY: misc_feature
;    LOCATION: (19)..(26)
;    OTHER INFORMATION: /note= "These bases are listed 3'->5' left to
;    OTHER INFORMATION: right."
;    NAME/KEY: misc_feature
;    LOCATION: (18)..(19)
;    OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(18)
;    OTHER INFORMATION: /note= "All phosphorothioate internucleotide
;    OTHER INFORMATION: linkages"
US-09-540-699-9

   Query Match              81.0%;  Score 17;  DB 3;  Length 26;
   Best Local Similarity    76.5%;  Pred. No. 1.4e+02;
   Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy            5 GCGUGCCUCCUCACUGG 21
                |||:|||:||:|||:||
Db            1 GCGTGCCTCCTCACTGG 17



RESULT 25
US-09-690-364-100/c
; Sequence 100, Application US/09690364
; Patent No. 6468795
; GENERAL INFORMATION:
;  APPLICANT:  Hong Zhang
;  APPLICANT:  Andrew T. Watt
;  TITLE OF INVENTION:  ANTISENSE MODULATION OF APAF-1 EXPRESSION
;  FILE REFERENCE:  RTS-0190
;  CURRENT APPLICATION NUMBER: US/09/690,364
;  CURRENT FILING DATE:  2000-10-17
;  NUMBER OF SEQ ID NOS:  100
; SEQ ID NO 100
;    LENGTH: 20
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Antisense Oligonucleotide
US-09-690-364-100

   Query Match              70.5%;  Score 14.8;  DB 3;  Length 20;
   Best Local Similarity    61.1%;  Pred. No. 1.4e+03;
   Matches   11;  Conservative    5;  Mismatches    2;  Indels    0;  Gaps    0;


Qy            3 CUGCGUGCCUCCUCACUG 20
                |:|  |:|||:||:||  :|
Db           19 CTGAGTGCCTCCTCAGTG 2



RESULT 26
US-09-396-196G-40930
; Sequence 40930, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
;  APPLICANT: Michael Mittmann
```

```
;   APPLICANT:  David Mack
;   APPLICANT:  David Lockhart
;   APPLICANT:  Affymetrix, Inc.
;   TITLE OF INVENTION: Methods of Genetic Analysis
;   FILE REFERENCE: 3101.1
;   CURRENT APPLICATION NUMBER: US/09/396,196G
;   CURRENT FILING DATE:  1999-09-15
;   PRIOR APPLICATION NUMBER: 60/100,678
;   PRIOR FILING DATE: 1998-09-17
;   NUMBER OF SEQ ID NOS: 127806
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40930
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Mus musculus
US-09-396-196G-40930

   Query Match              70.5%;  Score 14.8;  DB 3;  Length 25;
   Best Local Similarity    66.7%;  Pred. No. 1.4e+03;
   Matches    12;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;


Qy          3 CUGCGUGCCUCCUCACUG 20
              |:| |:||| ||:|||:|
Db          4 CTGTGTGCCACCTCACTG 21



RESULT 27
US-09-540-699-5
; Sequence 5, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
;  APPLICANT:  Agrawal, Sudhir
;  APPLICANT:  Kandimalla, Ekambar R.
;   TITLE OF INVENTION:  Pseudo-Cyclic Oligonucleobases
;   FILE REFERENCE:  99,128-B
;   CURRENT APPLICATION NUMBER: US/09/540,699
;   CURRENT FILING DATE:  2000-03-31
;   PRIOR APPLICATION NUMBER:  US 60/127,138
;   PRIOR FILING DATE:  1999-03-31
;   PRIOR APPLICATION NUMBER:  US 60/174,642
;   PRIOR FILING DATE:  2000-01-05
;   NUMBER OF SEQ ID NOS:  26
;   SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 5
;    LENGTH: 23
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
;    OTHER INFORMATION: that is complementary to the mRNA of regulatory
;    OTHER INFORMATION: subunit of protein kinase A
;   NAME/KEY: misc_feature
;    LOCATION: (18)..(23)
;    OTHER INFORMATION: /note= "These bases are listed 3'->5'left to
;    OTHER INFORMATION: right."
;   NAME/KEY: misc_feature
;    LOCATION: (17)..(18)
;    OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
US-09-540-699-5

   Query Match              68.6%;  Score 14.4;  DB 3;  Length 23;
```

Best Local Similarity   75.0%;   Pred. No. 2.2e+03;
Matches   12; Conservative   3; Mismatches   1; Indels   0; Gaps   0;

```
Qy          5 GCGUGCCUCCUCACUG 20
              |||:|||:||:||| |
Db          1 GCGTGCCTCCTCACGG 16
```


RESULT 28
US-09-396-196G-110880
; Sequence 110880, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 110880
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: mus musculus
US-09-396-196G-110880

   Query Match   68.6%;   Score 14.4;   DB 3;   Length 25;
   Best Local Similarity 68.8%;   Pred. No. 2.2e+03;
   Matches   11; Conservative   4; Mismatches   1; Indels   0; Gaps   0;

```
Qy          3 CUGCGUGCCUCCUCAC 18
              |:|||:|||:| :|||
Db          8 CTGCGTGCCTCTTCAC 23
```


RESULT 29
US-09-396-196G-110881
; Sequence 110881, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 110881
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: mus musculus

```
   Query Match              68.6%;   Score 14.4;   DB 3;   Length 25;
   Best Local Similarity    68.8%;   Pred. No. 2.2e+03;
   Matches    11;  Conservative     4;  Mismatches    1;  Indels    0;  Gaps    0;


Qy          3 CUGCGUGCCUCCUCAC 18
              |:|||:|||:| :|||
Db          5 CTGCGTGCCTCTTCAC 20
```

RESULT 30
US-08-532-979-2
; Sequence 2, Application US/08532979
; Patent No. 5969117
;   GENERAL INFORMATION:
;   APPLICANT: Agrawal, Sudhir
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC
;   TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Lappin & Kusmer
;   STREET: 200 State Street
;   CITY: Boston
;   STATE: MA
;   COUNTRY: USA
;   ZIP: 02109
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/532,979
;   FILING DATE:
;   CLASSIFICATION: 536
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Kerner, Ann-Louise
;   REGISTRATION NUMBER: 33,523
;   REFERENCE/DOCKET NUMBER: HYZ-050
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 617-330-1300
;   TELEFAX: 617-330-1311
;   INFORMATION FOR SEQ ID NO: 2:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: YES
US-08-532-979-2

   Query Match   65.7%;   Score 13.8;   DB 2;   Length 18;
   Best Local Similarity   70.6%;   Pred. No. 4e+03;
   Matches   12; Conservative   3; Mismatches   2; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              ||| |||:||:| |:||
Db   1 GCGCGCCTCCTCGCTGG 17
```

RESULT 31
US-08-532-979-5
; Sequence 5, Application US/08532979
; Patent No. 5969117
;  GENERAL INFORMATION:
;    APPLICANT:  Agrawal, Sudhir
;    TITLE OF INVENTION:  MODIFIED PROTEIN KINASE A-SPECIFIC
;    TITLE OF INVENTION:  OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/532,979
;      FILING DATE:
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kerner, Ann-Louise
;      REGISTRATION NUMBER:  33,523
;      REFERENCE/DOCKET NUMBER:  HYZ-050
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA/RNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  YES
US-08-532-979-5

   Query Match            65.7%;   Score 13.8;   DB 2;   Length 18;
   Best Local Similarity  76.5%;   Pred. No. 4e+03;
   Matches   13;  Conservative   2;  Mismatches   2;  Indels   0;  Gaps   0;

Qy        5 GCGUGCCUCCUCACUGG 21
            ||| |||:||:| ||||
Db        1 GCGCGCCTCCTCGCUGG 17


RESULT 32
US-08-532-979-7
; Sequence 7, Application US/08532979
; Patent No. 5969117
;  GENERAL INFORMATION:
;    APPLICANT:  Agrawal, Sudhir
;    TITLE OF INVENTION:  MODIFIED PROTEIN KINASE A-SPECIFIC

```
;    TITLE OF INVENTION:   OLIGONUCLEOTIDES AND METHODS OF THEIR USE
;    NUMBER OF SEQUENCES:   8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lappin & Kusmer
;      STREET:  200 State Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/532,979
;      FILING DATE:
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kerner, Ann-Louise
;      REGISTRATION NUMBER:  33,523
;      REFERENCE/DOCKET NUMBER:  HYZ-050
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-330-1300
;      TELEFAX:  617-330-1311
;  INFORMATION FOR SEQ ID NO:   7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA/RNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  YES
US-08-532-979-7
```

```
  Query Match              65.7%;  Score 13.8;  DB 2;  Length 18;
  Best Local Similarity    82.4%;  Pred. No. 4e+03;
  Matches   14;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;


Qy          5 GCGUGCCUCCUCACUGG 21
              ||| ||||||||| |:||
Db          1 GCGCGCCUCCUCGCTGG 17
```

```
RESULT 33
US-09-896-594-4/c
; Sequence 4, Application US/09896594
; Patent No. 6803225
; GENERAL INFORMATION:
;  APPLICANT: Contreras, Roland
;  APPLICANT:  Callewaert, Nico L. M.
;  APPLICANT:  Geysens, Steven C. J.
;  TITLE OF INVENTION: PROTEIN GLYCOSYLATION MODIFICATION IN PICHIA PASTORIS
;  FILE REFERENCE: 13748
;  CURRENT APPLICATION NUMBER: US/09/896,594
;  CURRENT FILING DATE: 2001-06-29
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 23
```

```
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence:primer
US-09-896-594-4

   Query Match          64.8%;   Score 13.6;   DB 3;   Length 23;
   Best Local Similarity    60.0%;   Pred. No. 4.9e+03;
   Matches    12;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 ·GCUGCGUGCCUCCUCACUGG 21
              || || :|| :||:|| :||
Db         20 GCGGCATGCGTCCTCAATGG 1


RESULT 34
US-09-896-594-8/c
; Sequence 8, Application US/09896594
; Patent No. 6803225
; GENERAL INFORMATION:
;  APPLICANT: Contreras, Roland
;  APPLICANT:  Callewaert, Nico L. M.
;  APPLICANT:  Geysens, Steven C. J.
;  TITLE OF INVENTION: PROTEIN GLYCOSYLATION MODIFICATION IN PICHIA PASTORIS
;  FILE REFERENCE: 13748
;  CURRENT APPLICATION NUMBER: US/09/896,594
;  CURRENT FILING DATE:  2001-06-29
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
;    LENGTH: 23
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence:primer
US-09-896-594-8

   Query Match          64.8%;   Score 13.6;   DB 3;   Length 23;
   Best Local Similarity    60.0%;   Pred. No. 4.9e+03;
   Matches    12;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 GCUGCGUGCCUCCUCACUGG 21
              || || :|| :||:|| :||
Db         20 GCGGCATGCGTCCTCAATGG 1


RESULT 35
US-09-396-196G-40807/c
; Sequence 40807, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
;  APPLICANT: Michael Mittmann
;  APPLICANT:  David Mack
;  APPLICANT:  David Lockhart
;  APPLICANT:  Affymetrix, Inc.
;  TITLE OF INVENTION: Methods of Genetic Analysis
;  FILE REFERENCE: 3101.1
;  CURRENT APPLICATION NUMBER: US/09/396,196G
;  CURRENT FILING DATE:  1999-09-15
;  PRIOR APPLICATION NUMBER: 60/100,678
;  PRIOR FILING DATE: 1998-09-17
```

```
;   NUMBER OF SEQ ID NOS: 127806
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40807
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Mus musculus
US-09-396-196G-40807

   Query Match              63.8%;   Score 13.4;  DB 3;   Length 25;
   Best Local Similarity    66.7%;   Pred. No. 6.1e+03;
   Matches   10;  Conservative    4;  Mismatches   1;  Indels   0;  Gaps   0;


Qy           5 GCGUGCCUCCUCACU 19
               |||:|||: |:|||:
Db          25 GCGTGCCTGCTCACT 11



RESULT 36
US-09-396-196G-15028/c
; Sequence 15028, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
;  APPLICANT: Michael Mittmann
;  APPLICANT:  David Mack
;  APPLICANT:  David Lockhart
;  APPLICANT:  Affymetrix, Inc.
;  TITLE OF INVENTION: Methods of Genetic Analysis
;  FILE REFERENCE: 3101.1
;  CURRENT APPLICATION NUMBER: US/09/396,196G
;  CURRENT FILING DATE:  1999-09-15
;  PRIOR APPLICATION NUMBER: 60/100,678
;  PRIOR FILING DATE: 1998-09-17
;  NUMBER OF SEQ ID NOS: 127806
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15028
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Mus musculus
US-09-396-196G-15028

   Query Match              62.9%;   Score 13.2;  DB 3;   Length 25;
   Best Local Similarity    55.6%;   Pred. No. 7.5e+03;
   Matches   10;  Conservative    5;  Mismatches   3;  Indels   0;  Gaps   0;


Qy           4 UGCGUGCCUCCUCACUGG 21
               :| |: ||:||:|| :||
Db          22 TGTGTTCCTCCTCAGTGG 5



RESULT 37
US-09-302-357-51
; Sequence 51, Application US/09302357
; Patent No. 6570070
; GENERAL INFORMATION:
;  APPLICANT: NAKAJIMA, Hiroki
;  APPLICANT: NAGASAWA, Akitsu
;  TITLE OF INVENTION: METHOD FOR GIVING RESISTANCE TO WEED CONTROL COMPOUNDS
;  TITLE OF INVENTION: TO PLANTS
;  FILE REFERENCE: 20-4555P
;  CURRENT APPLICATION NUMBER: US/09/302,357
;  CURRENT FILING DATE: 1999-04-30
```

; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide to synthesize the gene encoding
; OTHER INFORMATION: the peptide MG(RASSL)8
US-09-302-357-51

```
  Query Match              62.9%;   Score 13.2;  DB 3;   Length 30;
  Best Local Similarity    55.6%;   Pred. No. 7.5e+03;
  Matches   10;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy         3 CUGCGUGCCUCCUCACUG 20
             |:|||:|| :| :| |:|
Db         1 CTGCGTGCTTCTTCCCTG 18
```

RESULT 38
US-09-697-719-51
; Sequence 51, Application US/09697719
; Patent No. 6906245
; GENERAL INFORMATION:
; APPLICANT: NAKAJIMA, Hiroki
; APPLICANT: NAGASAWA, Akitsu
; TITLE OF INVENTION: Method for giving resistance to weed control compounds to plant
; FILE REFERENCE: 0020-4764P
; CURRENT APPLICATION NUMBER: US/09/697,719
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: JP 10/120553
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: JP 10/281127
; PRIOR FILING DATE: 1998-10-02
; PRIOR APPLICATION NUMBER: JP 10/330981
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: JP 11/054730
; PRIOR FILING DATE: 1999-03-02
; NUMBER OF SEQ ID NOS: 78
; SEQ ID NO 51
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Designed oligonucleotide to synthesize the gene encoding the pe
US-09-697-719-51

```
  Query Match              62.9%;   Score 13.2;  DB 3;   Length 30;
  Best Local Similarity    55.6%;   Pred. No. 7.5e+03;
  Matches   10;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy         3 CUGCGUGCCUCCUCACUG 20
             |:|||:|| :| :| |:|
Db         1 CTGCGTGCTTCTTCCCTG 18
```

RESULT 39
US-10-196-000-5/c
; Sequence 5, Application US/10196000

; Patent No. 6846674
; GENERAL INFORMATION:
; APPLICANT: Deutsches Krebsforschungszentrum
; APPLICANT: Angel, Peter
; APPLICANT: Fusenig, No. 6846674bert
; APPLICANT: Kolbus, Andrea
; APPLICANT: Schorpp-Kistner, Marina
; APPLICANT: Szabowski, Axel
; APPLICANT: Maas-Szabowski, Nicole
; APPLICANT: Andrecht, Sven
; TITLE OF INVENTION: GENETICALLY MODIFIED FIBROBLAST CELLS
; FILE REFERENCE: 1617.022US1
; CURRENT APPLICATION NUMBER: US/10/196,000
; CURRENT FILING DATE: 2002-07-15
; PRIOR APPLICATION NUMBER: PCT/DE01/00131
; PRIOR FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: DE 100 11 926.3
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 24
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: A primer
US-10-196-000-5

  Query Match   61.9%; Score 13; DB 3; Length 24;
  Best Local Similarity 76.9%; Pred. No. 9.2e+03;
  Matches   10; Conservative   3; Mismatches   0; Indels   0; Gaps   0;

Qy   2 GCUGCGUGCCUCC 14
          ||:|||:|||:||
Db   24 GCTGCGTGCCTCC 12

RESULT 40
US-09-396-196G-36692/c
; Sequence 36692, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 36692
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Mus musculus
US-09-396-196G-36692

  Query Match   61.9%; Score 13; DB 3; Length 25;

```
Best Local Similarity    57.1%;  Pred. No. 9.2e+03;
   Matches   12;  Conservative    4;  Mismatches    5;  Indels    0;  Gaps    0;

Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            |||:||  | |:||:|| : |
Db       24 GGCTGCTGGTCTCCTCAGTAG 4


Search completed: November 20, 2006, 06:03:17
Job time : 111 secs
```

SCORE 1.3	BuildDate: 12/06/2005

Matches   21; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy     1 GGCUGCGUGCCUCCUCACUGG 21
         ||||||||||||||||||||
Db     1 GGCUGCGUGCCUCCUCACUGG 21
```


RESULT 4
US-10-728-491-22
; Sequence 22, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribunucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 22
;   LENGTH: 23
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide 22-mer
US-10-728-491-22

   Query Match   100.0%; Score 21; DB 8; Length 23;
   Best Local Similarity 100.0%; Pred. No. 6.3;
   Matches   21; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy     1 GGCUGCGUGCCUCCUCACUGG 21
         ||||||||||||||||||||
Db     1 GGCUGCGUGCCUCCUCACUGG 21
```


RESULT 5
US-10-291-058A-8/c   _wo/99 50409
; Sequence 8, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 30
;   TYPE: RNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: RNA phosphodiester
US-10-291-058A-8

```
Query Match              100.0%;  Score 21;  DB 7;  Length 30;
Best Local Similarity     76.2%;  Pred. No. 6;
Matches    16;  Conservative     5;  Mismatches     0;  Indels     0;  Gaps     0;


Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            |||:|||:|||:||:|||:||
Db       28 GGCTGCGTGCCTCCTCACTGG 8
```

RESULT 6
US-10-728-491-21
; Sequence 21, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 21
;   LENGTH: 20
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide 20-mer
US-10-728-491-21

```
Query Match               95.2%;  Score 20;  DB 8;  Length 20;
Best Local Similarity    100.0%;  Pred. No. 19;
Matches    20;  Conservative     0;  Mismatches     0;  Indels     0;  Gaps     0;


Qy        1 GGCUGCGUGCCUCCUCACUG 20
            ||||||||||||||||||||
Db        1 GGCUGCGUGCCUCCUCACUG 20
```

RESULT 7
US-10-728-491-10
; Sequence 10, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 10
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 21 with poly-DNP-RNA-21
US-10-728-491-10

```
Query Match               95.2%;  Score 20;  DB 8;  Length 21;
```

Best Local Similarity   100.0%;   Pred. No. 19;
Matches   20; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCACUG 20
            ||||||||||||||||||||
Db        1 GGCUGCGUGCCUCCUCACUG 20
```


RESULT 8
US-10-728-491-11
; Sequence 11, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 11
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 20 with poly-DNP-RNA-21
US-10-728-491-11

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity   95.2%;   Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            |||||||||||||||||||| |
Db        1 GGCUGCGUGCCUCCUCACUCG 21
```


RESULT 9
US-10-728-491-12
; Sequence 12, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 12
;   LENGTH: 21
;   TYPE: RNA
;   .ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 19 of poly-DNP-RNA-21
US-10-728-491-12

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity   95.2%;   Pred. No. 36;

Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            ||||||||||||||||||| ||
Db        1 GGCUGCGUGCCUCCUCACAGG 21
```


RESULT 10
US-10-728-491-13
; Sequence 13, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 13
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 18 of poly-DNP-RNA-21
US-10-728-491-13

   Query Match   92.4%; Score 19.4; DB 8; Length 21;
   Best Local Similarity 95.2%; Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            |||||||||||||||||| |||
Db        1 GGCUGCGUGCCUCCUCAGUGG 21
```


RESULT 11
US-10-728-491-14
; Sequence 14, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 14
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 17 of poly-DNP-RNA-21
US-10-728-491-14

   Query Match   92.4%; Score 19.4; DB 8; Length 21;
   Best Local Similarity 95.2%; Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy          1 GGCUGCGUGCCUCCUCACUGG 21
              |||||||||||||||| ||||
Db          1 GGCUGCGUGCCUCCUCUCUGG 21
```


RESULT 12
US-10-728-491-15
; Sequence 15, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 15
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 16 of poly-DNP-RNA-21
US-10-728-491-15

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity   95.2%; Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels 0; Gaps   0;

```
Qy          1 GGCUGCGUGCCUCCUCACUGG 21
              |||||||||||||||| |||||
Db          1 GGCUGCGUGCCUCCUGACUGG 21
```


RESULT 13
US-10-728-491-16
; Sequence 16, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 16
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 15 of poly-DNP-RNA-21
US-10-728-491-16

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity   95.2%; Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels 0; Gaps   0;

```
Qy         1 GGCUGCGUGCCUCCUCACUGG 21
             ||||||||||||||| ||||||
Db         1 GGCUGCGUGCCUCCACACUGG 21
```

RESULT 14
US-10-728-491-17
; Sequence 17, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 17
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 14 of poly-DNP-RNA-21
US-10-728-491-17

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity 95.2%;   Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy         1 GGCUGCGUGCCUCCUCACUGG 21
             ||||||||||||| ||||||||
Db         1 GGCUGCGUGCCUCAUCACUGG 21
```

RESULT 15
US-10-728-491-18
; Sequence 18, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 18
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 11 of poly-DNP-RNA-21
US-10-728-491-18

   Query Match   92.4%;   Score 19.4; DB 8;   Length 21;
   Best Local Similarity 95.2%;   Pred. No. 36;
   Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy         1 GGCUGCGUGCCUCCUCACUGG 21
```

```
              | | | | | | | | | |   | | | | | | | | | |
Db        1 GGCUGCGUGCAUCCUCACUGG 21
```

RESULT 16
US-10-728-491-19
; Sequence 19, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 19
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 2 of poly-DNP-RNA-21
US-10-728-491-19

    Query Match   92.4%; Score 19.4; DB 8; Length 21;
    Best Local Similarity 95.2%; Pred. No. 36;
    Matches   20; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCACUGG 21
              |  | | | | | | | | | | | | | | | | | | |
Db        1 GCCUGCGUGCCUCCUCACUGG 21
```

RESULT 17
US-10-728-491-8/c
; Sequence 8, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 8
;   LENGTH: 21
;   TYPE: DNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Sense strand
US-10-728-491-8

    Query Match   90.5%; Score 19; DB 8; Length 21;
    Best Local Similarity 73.7%; Pred. No. 56;
    Matches   14; Conservative   5; Mismatches   0; Indels   0; Gaps   0;

```
Qy        3 CUGCGUGCCUCCUCACUGG 21
              |:| | |:| | |:| |:| | |:| |
```

Db   21 CTGCGTGCCTCCTCACTGG 3

RESULT 18
US-10-728-491-20
; Sequence 20, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 20
;   LENGTH: 18
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide 18-mer
US-10-728-491-20

   Query Match   85.7%; Score 18; DB 8; Length 18;
   Best Local Similarity   100.0%; Pred. No. 1.7e+02;
   Matches   18; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 GGCUGCGUGCCUCCUCAC 18
              ||||||||||||||||||
Db   1 GGCUGCGUGCCUCCUCAC 18

RESULT 19
US-09-835-371-39
; Sequence 39, Application US/09835371
; Publication No. US20020187473A1
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, Eugen
; APPLICANT: BREIPOHL, Gerhard
; APPLICANT: WILL, David W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1743 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,371
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: base sequence
;   OTHER INFORMATION: of PNA targeting CMV
US-09-835-371-39

   Query Match   81.0%; Score 17; DB 3; Length 18;
   Best Local Similarity   76.5%; Pred. No. 5e+02;
   Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```
Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17
```

RESULT 20
US-09-835-370-39
; Sequence 39, Application US/09835370
; Publication No. US20030022172A1
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: WILL, DAVID W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,370
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: nucleotide
; OTHER INFORMATION: base sequence of PNA derivatives that bind to
; OTHER INFORMATION: viral and cellular targets
US-09-835-370-39

  Query Match   81.0%; Score 17; DB 3; Length 18;
  Best Local Similarity   76.5%; Pred. No. 5e+02;
  Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```
Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17
```

RESULT 21
US-09-412-947-1
; Sequence 1, Application US/09412947
; Publication No. US20030105035A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF THEIR USE
; FILE REFERENCE: HYZ-050CP2
; CURRENT APPLICATION NUMBER: US/09/412,947
; CURRENT FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: US 60/103,098
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:control
; OTHER INFORMATION: synthetic oligonucleotide

US-09-412-947-1

    Query Match   81.0%; Score 17; DB 3;   Length 18;
    Best Local Similarity   76.5%; Pred. No. 5e+02;
    Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 22
US-09-412-947-4
; Sequence 4, Application US/09412947
; Publication No. US20030105035A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF THEIR USE
; FILE REFERENCE: HYZ-050CP2
; CURRENT APPLICATION NUMBER: US/09/412,947
; CURRENT FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: US 60/103,098
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Combined DNA/RNA Molecule:single
;   OTHER INFORMATION: stranded nucleic acid
;   OTHER INFORMATION: Description of Artificial Sequence:hybrid
;   OTHER INFORMATION: synthetic oligonucleotide
US-09-412-947-4

    Query Match   81.0%; Score 17; DB 3;   Length 18;
    Best Local Similarity   88.2%; Pred. No. 5e+02;
    Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17

RESULT 23
US-09-412-947-6
; Sequence 6, Application US/09412947
; Publication No. US20030105035A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF THEIR USE
, ; FILE REFERENCE: HYZ-050CP2
; CURRENT APPLICATION NUMBER: US/09/412,947
; CURRENT FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: US 60/103,098
; PRIOR FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 6
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Combined DNA/RNA Molecule:single
;   OTHER INFORMATION: stranded nucleic acid
;   OTHER INFORMATION: Description of Artificial Sequence:inverted hybrid
;   OTHER INFORMATION: synthetic oligonucleotide
US-09-412-947-6

   Query Match   81.0%; Score 17; DB 3; Length 18;
   Best Local Similarity   88.2%; Pred. No. 5e+02;
   Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:||||||||||:||
Db   1 GCGTGCCUCCUCACTGG 17

RESULT 24
US-10-262-318-12
; Sequence 12, Application US/10262318
; Publication No. US20030144198A1
; GENERAL INFORMATION:
;   APPLICANT: Copharos
;   APPLICANT: Collins, Douglas A.
;   TITLE OF INVENTION: CODMINISTRATION OF TRANSPORT PROTEINS WITH CONJUGATED COBALAMIN
;   TITLE OF INVENTION: DELIVER AGENTS
;   FILE REFERENCE: COP1012
;   CURRENT APPLICATION NUMBER: US/10/262,318
;   CURRENT FILING DATE: 2002-09-30
;   NUMBER OF SEQ ID NOS: 14
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: ARTIFICIAL SEQUENCE
;   FEATURE:
;   OTHER INFORMATION: Oligonucleotide-- GEN-231 (hybridon)
;   FEATURE:
;   NAME/KEY: modified_base
;   LOCATION: (1)..(4)
;   OTHER INFORMATION: 2'OMe sugar modifications
;   FEATURE:
;   NAME/KEY: modified_base
;   LOCATION: (15)..(18)
;   OTHER INFORMATION: 2'OMe sugar modifications
US-10-262-318-12

   Query Match   81.0%; Score 17; DB 7; Length 18;
   Best Local Similarity   88.2%; Pred. No. 5e+02;
   Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17

RESULT 25
US-10-291-058A-2

; Sequence 2, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE:. 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 1
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: nucleotides 1-18 are each connected by
;   OTHER INFORMATION: phosphorothioate linkage
US-10-291-058A-2

    Query Match   81.0%; Score 17; DB 7; Length 18;
    Best Local Similarity 76.5%; Pred. No. 5e+02;
    Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db   1 GCGTGCCTCCTCACTGG 17

RESULT 26
US-10-291-058A-3
; Sequence 3, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 2
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)

```
;    OTHER INFORMATION: nucleotides 1-18 are each connected by
;    OTHER INFORMATION: phosphorothioate linkage
US-10-291-058A-3

   Query Match              81.0%;  Score 17;  DB 7;  Length 18;
   Best Local Similarity    88.2%;  Pred. No. 5e+02;
   Matches   15; Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db          1 GCGUGCCTCCTCACUGG 17



RESULT 27
US-10-291-058A-4
; Sequence 4, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
;   APPLICANT: Zhou, Wen-Qiang
;   APPLICANT:  Agrawal, Sudhir
;   TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
;   TITLE OF INVENTION:  to Obtain Reduced Phosphorothioate Content
;   FILE REFERENCE: 47508-752
;   CURRENT APPLICATION NUMBER: US/10/291,058A
;   CURRENT FILING DATE:  2002-11-08
;   PRIOR APPLICATION NUMBER: US 09/283,431
;   PRIOR FILING DATE: 1999-04-01
;.  NUMBER OF SEQ ID NOS: 8
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 3
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;.  OTHER INFORMATION: nucleotides 1-18 are each connected by
;    OTHER INFORMATION: phosphorothioate linkage
US-10-291-058A-4

   Query Match              81.0%;  Score 17;  DB 7;  Length 18;
   Best Local Similarity   100.0%;  Pred. No. 5e+02;
   Matches   17; Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              ||||||||||||||||||
Db          1 GCGUGCCUCCUCACUGG 17



RESULT 28
US-10-291-058A-5
; Sequence 5, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
;   APPLICANT: Zhou, Wen-Qiang
;   APPLICANT:  Agrawal, Sudhir
;   TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
;   TITLE OF INVENTION:  to Obtain Reduced Phosphorothioate Content
;   FILE REFERENCE: 47508-752
```

```
;   CURRENT APPLICATION NUMBER: US/10/291,058A
;   CURRENT FILING DATE:  2002-11-08
;   PRIOR APPLICATION NUMBER: US 09/283,431
;   PRIOR FILING DATE: 1999-04-01
;   NUMBER OF SEQ ID NOS: 8
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 4
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: nucleotides 1-18 are each connected by
;   OTHER INFORMATION: phosphodiester linkage
US-10-291-058A-5

  Query Match             81.0%;  Score 17;  DB 7;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 5e+02;
  Matches  17;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              ||||||||||||||||||
Db          1 GCGUGCCUCCUCACUGG 17



RESULT 29
US-10-291-058A-6
; Sequence 6, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
;   APPLICANT: Zhou, Wen-Qiang
;   APPLICANT:  Agrawal, Sudhir
;   TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
;   TITLE OF INVENTION:  to Obtain Reduced Phosphorothioate Content
;   FILE REFERENCE: 47508-752
;   CURRENT APPLICATION NUMBER: US/10/291,058A
;   CURRENT FILING DATE:  2002-11-08
;   PRIOR APPLICATION NUMBER: US 09/283,431
;   PRIOR FILING DATE: 1999-04-01
;   NUMBER OF SEQ ID NOS: 8
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 5
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: Nucleotides 1&2, 3&4, 5&6, 7&8, 9&10, 11&12,
;   OTHER INFORMATION: 13&14, 15&16, and 17&18 are connected by
;   OTHER INFORMATION: phosphorothioate linkage
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: nucleotides 4&5, 6&7, 8&9, 10&11, 12&13, 14&15 and
;   OTHER INFORMATION: 16&17 are connected by phosphodiester linkage
```

US-10-291-058A-6

```
   Query Match              81.0%;   Score 17;   DB 7;   Length 18;
   Best Local Similarity   100.0%;   Pred. No. 5e+02;
   Matches   17;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||||||||||||||||
Db       .  1 GCGUGCCUCCUCACUGG 17
```

RESULT 30
US-10-291-058A-7
; Sequence 7, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligo No. US20030220486A1 6
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: nucleotides 1&2, 3&4, 5-14, 15&16, and 17&18 are
;   OTHER INFORMATION: connected by phosphorothioate linkage
;   FEATURE:
;   NAME/KEY: misc_binding
;   LOCATION: (1)...(18)
;   OTHER INFORMATION: nucleotides 2&3, 4&5, 14&15 and 16&17 are
;   OTHER INFORMATION: connected by phosphodiester linkage
US-10-291-058A-7

   Query Match   81.0%;   Score 17;   DB 7;   Length 18;
   Best Local Similarity . 88.2%;   Pred. No. 5e+02;
   Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17
```

RESULT 31
US-10-640-898-20
; Sequence 20, Application US/10640898
; Publication No. US20040033980A1
; GENERAL INFORMATION: .
; APPLICANT: AGRAWAL, Sudhir
; APPLICANT: DIASIO, Robert B.

; APPLICANT: ZHANG, Ruiwen
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
; FILE REFERENCE: HYZ-030CPCN2(47508-734)
; CURRENT APPLICATION NUMBER: US/10/640,898
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: US 08/758,005
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 08/709,910
; PRIOR FILING DATE: 1996-09-09
; PRIOR APPLICATION NUMBER: US 08/328,520
; PRIOR FILING DATE: 1994-10-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense
;   OTHER INFORMATION: DNA/RNA
US-10-640-898-20

   Query Match   81.0%; Score 17; DB 8;   Length 18;
   Best Local Similarity 88.2%; Pred. No. 5e+02;
   Matches 15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
             |||||||:||:||||||
Db   1 GCGUGCCTCCTCACUGG 17

RESULT 32
US-10-641-521-1
; Sequence 1, Application US/10641521
; Publication No. US20040106570A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
;   TITLE OF INVENTION: METHODS OF THEIR USE
;   FILE REFERENCE: HYZ-050CIPDV-47508.766
;   CURRENT APPLICATION NUMBER: US/10/641,521
;   CURRENT FILING DATE: 2003-08-15
;   PRIOR APPLICATION NUMBER: 09/022,965
;   PRIOR FILING DATE: 1998-02-12
;   PRIOR APPLICATION NUMBER: 60/040,740
;   PRIOR FILING DATE: 1997-03-12
;   PRIOR APPLICATION NUMBER: 08/532,979
;   PRIOR FILING DATE: 1995-09-22
;   PRIOR APPLICATION NUMBER: 08/516,454
;   PRIOR FILING DATE: 1995-08-17
;   NUMBER OF SEQ ID NOS: 8
;   SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: oligonucleotide
US-10-641-521-1

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   Query Match                81.0%;  Score 17;  DB 8;  Length 18;
   Best Local Similarity      76.5%;  Pred. No. 5e+02;
   Matches   13;  Conservative   4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy           5 GCGUGCCUCCUCACUGG 21
               |||:|||:||:|||:||
Db           1 GCGTGCCTCCTCACTGG 17



RESULT 33
US-10-641-521-4
; Sequence 4, Application US/10641521
; Publication No. US20040106570A1
; GENERAL INFORMATION:
;  APPLICANT: AGRAWAL, SUDHIR
;  TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
;  TITLE OF INVENTION:  METHODS OF THEIR USE
;  FILE REFERENCE: HYZ-050CIPDV-47508.766
;  CURRENT APPLICATION NUMBER: US/10/641,521
;  CURRENT FILING DATE:  2003-08-15
;  PRIOR APPLICATION NUMBER: 09/022,965
;  PRIOR FILING DATE: 1998-02-12
;  PRIOR APPLICATION NUMBER: 60/040,740
;  PRIOR FILING DATE: 1997-03-12
;  PRIOR APPLICATION NUMBER: 08/532,979
;  PRIOR FILING DATE: 1995-09-22
;  PRIOR APPLICATION NUMBER: 08/516,454
;  PRIOR FILING DATE: 1995-08-17
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
;   OTHER INFORMATION: Synthetic oligonucleotide
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: oligonucleotide
US-10-641-521-4

   Query Match                81.0%;  Score 17;  DB 8;  Length 18;
   Best Local Similarity      88.2%;  Pred. No. 5e+02;
   Matches   15;  Conservative   2;  Mismatches    0;  Indels    0;  Gaps    0;


Qy           5 GCGUGCCUCCUCACUGG 21
               |||||||:||:||||||
Db           1 GCGUGCCTCCTCACUGG 17



RESULT 34
US-10-641-521-6
; Sequence 6, Application US/10641521
; Publication No. US20040106570A1
; GENERAL INFORMATION:
;  APPLICANT: AGRAWAL, SUDHIR
;  TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
;  TITLE OF INVENTION:  METHODS OF THEIR USE
;  FILE REFERENCE: HYZ-050CIPDV-47508.766
;  CURRENT APPLICATION NUMBER: US/10/641,521
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;   CURRENT FILING DATE:  2003-08-15
;   PRIOR APPLICATION NUMBER: 09/022,965
;   PRIOR FILING DATE: 1998-02-12
;.  PRIOR APPLICATION NUMBER: 60/040,740
;   PRIOR FILING DATE: 1997-03-12
;   PRIOR APPLICATION NUMBER: 08/532,979
;   PRIOR FILING DATE: 1995-09-22
;   PRIOR APPLICATION NUMBER: 08/516,454
;   PRIOR FILING DATE: 1995-08-17
;   NUMBER OF SEQ ID NOS: 8
;   SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
;   OTHER INFORMATION: Synthetic oligonucleotide
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: oligonucleotide
US-10-641-521-6

   Query Match            81.0%;   Score 17;  DB 8;   Length 18;
   Best Local Similarity  88.2%;   Pred. No. 5e+02;
   Matches   15;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||||||||||:||
Db          1 GCGTGCCUCCUCACTGG 17


RESULT 35
US-10-728-491-2
; Sequence 2, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Jui, H
;  TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;  FILE REFERENCE: 11520.0338
;  CURRENT APPLICATION NUMBER: US/10/728,491
;  CURRENT FILING DATE:  2003-12-05
;  PRIOR APPLICATION NUMBER: US 60/431,694
;  PRIOR FILING DATE: 2002-12-05
;  NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 2
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Mixed backbone (DNA/RNA)oligonucleotide - GEM231
US-10-728-491-2

   Query Match            81.0%;   Score 17;  DB 8;   Length 18;
   Best Local Similarity  88.2%;   Pred. No. 5e+02;
   Matches   15;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||||||:||:||||||
Db          1 GCGUGCCTCCTCACUGG 17
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RESULT 36
US-10-728-491-5
; Sequence 5, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 5
;   LENGTH: 18
;   TYPE: DNA
;   ·ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Mixed backbone (DNA/RNA) Oligonucleotide of Srivasta et al., 19
US-10-728-491-5

    Query Match   81.0%; Score 17; DB 8; Length 18;
    Best Local Similarity 88.2%; Pred. No. 5e+02;
    Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
               |||:||||||||||:||
Db   1 GCGTGCCUCCUCACTGG 17

RESULT 37
US-10-863-999-39
; Sequence 39, Application US/10863999
; Publication No. US20040265885A1
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: WILL, DAVID W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/10/863,999
; CURRENT FILING DATE: 2004-06-09
; PRIOR APPLICATION NUMBER: US/09/835,370
; PRIOR FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: nucleotide
;   OTHER INFORMATION: base sequence of PNA derivatives that bind to
;   OTHER INFORMATION: viral and cellular targets
US-10-863-999-39

    Query Match   ·   81.0%; Score 17; DB 9; Length 18;
    Best Local Similarity 76.5%; Pred. No. 5e+02;
    Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

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Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
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RESULT 38
US-10-858-658-39
; Sequence 39, Application US/10858658
; Publication No. US20050009073A1
; GENERAL INFORMATION:
;   APPLICANT: UHLMANN, Eugen
;   APPLICANT: BREIPOHL, Gerhard
;   APPLICANT: WILL, David W
;   TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND
;   TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
;   FILE REFERENCE: 02481.1743 SEQUENCE LISTING
;   CURRENT APPLICATION NUMBER: US/10/858,658
;   CURRENT FILING DATE: 2004-06-02
;   PRIOR APPLICATION NUMBER: US/09/835,371
;   PRIOR FILING DATE: 2001-04-17
;   NUMBER OF SEQ ID NOS: 53
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: base sequence
;   OTHER INFORMATION: of PNA targeting CMV
US-10-858-658-39

    Query Match   81.0%; Score 17; DB 9; Length 18;
    Best Local Similarity   76.5%; Pred. No. 5e+02;
    Matches   13; Conservative.   4; Mismatches   0; Indels   0; Gaps   0;

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Qy        5 GCGUGCCUCCUCACUGG 21
            |||:|||:||:|||:||
Db        1 GCGTGCCTCCTCACTGG 17
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RESULT 39
US-10-854-989-1
; Sequence 1, Application US/10854989
; Publication No. US20050054600A1
; GENERAL INFORMATION:
;   APPLICANT: AGRAWAL, SUDHIR
;   TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
;   TITLE OF INVENTION: METHODS OF THEIR USE
;   FILE REFERENCE: HYZ-050CP3 (47508.766)
;   CURRENT APPLICATION NUMBER: US/10/854,989
;   CURRENT FILING DATE: 2004-05-27
;   PRIOR APPLICATION NUMBER: 09/708,786
;   PRIOR FILING DATE: 2000-11-08
;   PRIOR APPLICATION NUMBER: 09/412,947
;   PRIOR FILING DATE: 1999-10-05
;   PRIOR APPLICATION NUMBER: 60/164,182
;   PRIOR FILING DATE: 1999-11-09
;   PRIOR APPLICATION NUMBER: 60/103,098
;   PRIOR FILING DATE: 1998-10-05
;   PRIOR APPLICATION NUMBER: 09/022,965

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;   PRIOR FILING DATE: 1998-02-12
;   PRIOR APPLICATION NUMBER: 08/532,979
;   PRIOR FILING DATE: 1995-09-22
;   PRIOR APPLICATION NUMBER: 08/516,454
;   PRIOR FILING DATE: 1995-08-17
;   NUMBER OF SEQ ID NOS: 10
;   SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
;    LENGTH: 18
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;    OTHER INFORMATION: oligonucleotide
US-10-854-989-1

    Query Match            81.0%;  Score 17;  DB 10;  Length 18;
    Best Local Similarity  76.5%;  Pred. No. 5e+02;
    Matches   13;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;


Qy          5 GCGUGCCUCCUCACUGG 21
              |||:|||:||:|||:||
Db          1 GCGTGCCTCCTCACTGG 17



RESULT 40
US-10-854-989-4
; Sequence 4, Application US/10854989
; Publication No. US20050054600A1
; GENERAL INFORMATION:
;  APPLICANT: AGRAWAL, SUDHIR
;  TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
;  TITLE OF INVENTION:   METHODS OF THEIR USE
;  FILE REFERENCE: HYZ-050CP3 (47508.766)
;  CURRENT APPLICATION NUMBER: US/10/854,989
;  CURRENT FILING DATE:   2004-05-27
;  PRIOR APPLICATION NUMBER: 09/708,786
;  PRIOR FILING DATE: 2000-11-08
;  PRIOR APPLICATION NUMBER: 09/412,947
;  PRIOR FILING DATE: 1999-10-05
;  PRIOR APPLICATION NUMBER: 60/164,182
;  PRIOR FILING DATE: 1999-11-09
;  PRIOR APPLICATION NUMBER: 60/103,098
;  PRIOR FILING DATE: 1998-10-05
;  PRIOR APPLICATION NUMBER: 09/022,965
;  PRIOR FILING DATE: 1998-02-12
;  PRIOR APPLICATION NUMBER: 08/532,979
;  PRIOR FILING DATE: 1995-09-22
;  PRIOR APPLICATION NUMBER: 08/516,454
;  PRIOR FILING DATE: 1995-08-17
;  NUMBER OF SEQ ID NOS: 10
;  SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
;    LENGTH: 18
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Combined DNA/RNA Molecule: Synthetic
;    OTHER INFORMATION: oligonucleotide
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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;   OTHER INFORMATION: oligonucleotide
US-10-854-989-4

   Query Match   81.0%;   Score 17; DB 10;   Length 18;
   Best Local Similarity   88.2%; Pred. No. 5e+02;
   Matches   15; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   5 GCGUGCCUCCUCACUGG 21
            | | | | | | | : | | : | | | | | |
Db   1 GCGUGCCTCCTCACUGG 17

Search completed: November 20, 2006, 07:28:40
Job time : 1421 secs

SCORE 1.3   BuildDate: 12/06/2005

SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491-1.max.rnpbn.

This page gives you Search Results detail for the Application 10728491 and Search Result us-10-72 491-1.max.rnpbn.

start

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                    GenCore version 5.1.9
          Copyright (c) 1993 - 2006  Biocceleration Ltd.


OM nucleic - nucleic search, using sw model

Run on:           November 20, 2006, 05:56:36 ; Search time 128 Seconds
                                    (without alignments)
                                    326.235 Million cell updates/sec

Title:            US-10-728-491-1
Perfect score:    21
Sequence:         1 ggcugcgugccuccucacugg 21

Scoring table:    IDENTITY_NUC
                  Gapop 10.0 , Gapext 1.0

Searched:         2477703 seqs, 994239549 residues

Total number of hits satisfying chosen parameters:        3180896

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 1000 summaries

Database :        Published_Applications_NA_New:*
                  1:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US09_NEW_PUB.seq:*
                  2:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US06_NEW_PUB.seq:*
                  3:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US07_NEW_PUB.seq:*
                  4:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US08_NEW_PUB.seq:*
                  5:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
                  6:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:*
                  7:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US11_NEW_PUB.seq:*
                  8:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US11_NEW_PUB.seq1:*
                  9:   /EMC_Celerra_SIDS3/ptodata/1/pubpna/US11_NEW_PUB.seq2:*
                  10:  /EMC_Celerra_SIDS3/ptodata/1/pubpna/US60_NEW_PUB.seq:*

          Pred. No. is the number of results predicted by chance to have a
          score greater than or equal to the score of the result being printed,
          and is derived by analysis of the total score distribution.

                              SUMMARIES
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	Result No.	Score	% Query Match	Length	DB	ID	Description
c	1	13.6	64.8	25	9	US-11-348-413-622759	Sequence 622759,
	2	13.2	62.9	25	7	US-11-389-343-574	Sequence 574, App
	3	13.2	62.9	25	7	US-11-389-017-574	Sequence 574, App
c	4	13.2	62.9	25	8	US-11-217-529-137062	Sequence 137062,
c	5	13	61.9	18	6	US-10-524-193A-18	Sequence 18, Appl
	6	13	61.9	25	8	US-11-217-529-36189	Sequence 36189, A
	7	13	61.9	25	8	US-11-217-529-48938	Sequence 48938, A
c	8	12.8	61.0	25	8	US-11-217-529-68255	Sequence 68255, A
c	9	12.6	60.0	25	8	US-11-217-529-35669	Sequence 35669, A
c	10	12.6	60.0	25	9	US-11-348-413-648389	Sequence 648389,
	11	12.6	60.0	27	6	US-10-519-335-18	Sequence 18, Appl
	12	12.6	60.0	27	6	US-10-519-335-22	Sequence 22, Appl
c	13	12.4	59.0	16	6	US-10-529-163-14	Sequence 14, Appl
	14	12.4	59.0	22	6	US-10-536-369-301	Sequence 301, App
	15	12.4	59.0	25	8	US-11-217-529-27170	Sequence 27170, A
c	16	12.2	58.1	25	8	US-11-217-529-163600	Sequence 163600,
	17	12.2	58.1	25	9	US-11-348-413-368971	Sequence 368971,
	18	12.2	58.1	25	9	US-11-348-413-368972	Sequence 368972,
	19	12.2	58.1	25	9	US-11-348-413-368973	Sequence 368973,
	20	12.2	58.1	25	9	US-11-348-413-368974	Sequence 368974,
	21	12.2	58.1	25	9	US-11-348-413-368975	Sequence 368975,
c	22	12.2	58.1	25	9	US-11-348-413-387703	Sequence 387703,
c	23	12.2	58.1	25	9	US-11-348-413-387704	Sequence 387704,
c	24	12.2	58.1	25	9	US-11-348-413-387705	Sequence 387705,
c	25	12.2	58.1	25	9	US-11-348-413-387706	Sequence 387706,
c	26	12.2	58.1	25	9	US-11-348-413-387707	Sequence 387707,
c	27	12.2	58.1	25	9	US-11-348-413-387708	Sequence 387708,
c	28	12.2	58.1	25	9	US-11-348-413-387709	Sequence 387709,
c	29	12.2	58.1	25	9	US-11-348-413-450436	Sequence 450436,
c	30	12.2	58.1	25	9	US-11-348-413-450437	Sequence 450437,
c	31	12.2	58.1	25	9	US-11-348-413-450438	Sequence 450438,
c	32	12.2	58.1	25	9	US-11-348-413-450439	Sequence 450439,
c	33	12.2	58.1	25	9	US-11-348-413-450440	Sequence 450440,
c	34	12.2	58.1	25	9	US-11-348-413-450441	Sequence 450441,
c	35	12.2	58.1	25	9	US-11-348-413-450442	Sequence 450442,
c	36	12.2	58.1	25	9	US-11-348-413-450443	Sequence 450443,
c	37	12.2	58.1	25	9	US-11-348-413-450444	Sequence 450444,
	38	12.2	58.1	25	9	US-11-348-413-830449	Sequence 830449,
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	43	12.2	58.1	25	9	US-11-348-413-1007625	Sequence 1007625,
	44	12.2	58.1	25	9	US-11-348-413-1007626	Sequence 1007626,
	45	12.2	58.1	25	9	US-11-348-413-1007627	Sequence 1007627,
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	47	12.2	58.1	25	9	US-11-348-413-1007629	Sequence 1007629,
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c	50	12.2	58.1	25	9	US-11-348-413-1026811	Sequence 1026811,
c	51	12.2	58.1	25	9	US-11-348-413-1092501	Sequence 1092501,
c	52	12.2	58.1	25	9	US-11-348-413-1092502	Sequence 1092502,
	53	12	57.1	25	8	US-11-217-529-21831	Sequence 21831, A
c	54	12	57.1	25	8	US-11-217-529-23698	Sequence 23698, A
	55	12	57.1	25	8	US-11-217-529-27206	Sequence 27206, A
	56	12	57.1	25	8	US-11-217-529-57271	Sequence 57271, A
	57	12	57.1	25	8	US-11-217-529-109875	Sequence 109875,

c	58	12	57.1	25	8	US-11-217-529-116645	Sequence 116645,
	59	12	57.1	25	8	US-11-217-529-132619	Sequence 132619,
	60	12	57.1	25	8	US-11-217-529-132621	Sequence 132621,
	61	12	57.1	25	8	US-11-217-529-132642	Sequence 132642,
	62	12	57.1	25	9	US-11-348-413-641936	Sequence 641936,
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	64	11.8	56.2	17	6	US-10-858-013-476	Sequence 476, App
	65	11.8	56.2	17	6	US-10-858-164-476	Sequence 476, App
	66	11.8	56.2	17	6	US-10-858-146-476	Sequence 476, App
	67	11.8	56.2	19	6	US-10-858-013-475	Sequence 475, App
c	68	11.8	56.2	19	6	US-10-536-932-67	Sequence 67, Appl
	69	11.8	56.2	19	6	US-10-858-164-475	Sequence 475, App
	70	11.8	56.2	19	6	US-10-858-146-475	Sequence 475, App
c	71	11.8	56.2	19	7	US-11-112-926-812	Sequence 812, App
	72	11.8	56.2	20	1	US-09-912-968-17	Sequence 17, Appl
c	73	11.8	56.2	20	6	US-10-987-453-149	Sequence 149, App
c	74	11.8	56.2	20	6	US-10-536-932-61	Sequence 61, Appl
c	75	11.8	56.2	20	6	US-10-536-932-73	Sequence 73, Appl
	76	11.8	56.2	21	6	US-10-858-013-474	Sequence 474, App
	77	11.8	56.2	21	6	US-10-858-164-474	Sequence 474, App
	78	11.8	56.2	21	6	US-10-858-146-474	Sequence 474, App
	79	11.8	56.2	21	7	US-11-370-584-9808	Sequence 9808, Ap
	80	11.8	56.2	23	6	US-10-858-013-473	Sequence 473, App
	81	11.8	56.2	23	6	US-10-858-013-640	Sequence 640, App
	82	11.8	56.2	23	6	US-10-858-164-473	Sequence 473, App
	83	11.8	56.2	23	6	US-10-858-164-640	Sequence 640, App
	84	11.8	56.2	23	6	US-10-858-146-473	Sequence 473, App
	85	11.8	56.2	23	6	US-10-858-146-640	Sequence 640, App
	86	11.8	56.2	25	6	US-10-858-013-31	Sequence 31, Appl
	87	11.8	56.2	25	6	US-10-858-013-441	Sequence 441, App
	88	11.8	56.2	25	6	US-10-858-013-457	Sequence 457, App
	89	11.8	56.2	25	6	US-10-858-013-458	Sequence 458, App
	90	11.8	56.2	25	6	US-10-858-013-459	Sequence 459, App
	91	11.8	56.2	25	6	US-10-858-013-480	Sequence 480, App
	92	11.8	56.2	25	6	US-10-858-013-639	Sequence 639, App
	93	11.8	56.2	25	6	US-10-858-164-31	Sequence 31, Appl
	94	11.8	56.2	25	6	US-10-858-164-441	Sequence 441, App
	95	11.8	56.2	25	6	US-10-858-164-457	Sequence 457, App
	96	11.8	56.2	25	6	US-10-858-164-458	Sequence 458, App
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	98	11.8	56.2	25	6	US-10-858-164-480	Sequence 480, App
	99	11.8	56.2	25	6	US-10-858-164-639	Sequence 639, App
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	101	11.8	56.2	25	6	US-10-858-146-441	Sequence 441, App
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	104	11.8	56.2	25	6	US-10-858-146-459	Sequence 459, App
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	106	11.8	56.2	25	6	US-10-858-146-639	Sequence 639, App
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c	108	11.8	56.2	25	8	US-11-217-529-111255	Sequence 111255,
c	109	11.8	56.2	25	8	US-11-217-529-164251	Sequence 164251,
c	110	11.8	56.2	25	9	US-11-348-413-387701	Sequence 387701,
c	111	11.8	56.2	25	9	US-11-348-413-387702	Sequence 387702,
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	115	11.8	56.2	26	6	US-10-858-013-447	Sequence 447, App
	116	11.8	56.2	26	6	US-10-858-013-502	Sequence 502, App
	117	11.8	56.2	26	6	US-10-858-013-503	Sequence 503, App
	118	11.8	56.2	26	6	US-10-858-013-504	Sequence 504, App

119	11.8	56.2	26	6	US-10-858-013-505	Sequence 505, App
120	11.8	56.2	26	6	US-10-858-164-442	Sequence 442, App
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122	11.8	56.2	26	6	US-10-858-164-502	Sequence 502, App
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124	11.8	56.2	26	6	US-10-858-164-504	Sequence 504, App
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149	11.8	56.2	28	6	US-10-858-164-444	Sequence 444, App
150	11.8	56.2	28	6	US-10-858-164-449	Sequence 449, App
151	11.8	56.2	28	6	US-10-858-146-444	Sequence 444, App
152	11.8	56.2	28	6	US-10-858-146-449	Sequence 449, App
153	11.8	56.2	29	6	US-10-858-013-445	Sequence 445, App
154	11.8	56.2	29	6	US-10-858-013-450	Sequence 450, App
155	11.8	56.2	29	6	US-10-858-013-453	Sequence 453, App
156	11.8	56.2	29	6	US-10-858-013-489	Sequence 489, App
157	11.8	56.2	29	6	US-10-858-013-637	Sequence 637, App
158	11.8	56.2	29	6	US-10-858-013-647	Sequence 647, App
159	11.8	56.2	29	6	US-10-858-164-445	Sequence 445, App
160	11.8	56.2	29	6	US-10-858-164-450	Sequence 450, App
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162	11.8	56.2	29	6	US-10-858-164-489	Sequence 489, App
163	11.8	56.2	29	6	US-10-858-164-637	Sequence 637, App
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165	11.8	56.2	29	6	US-10-858-146-445	Sequence 445, App
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168	11.8	56.2	29	6	US-10-858-146-489	Sequence 489, App
169	11.8	56.2	29	6	US-10-858-146-637	Sequence 637, App
170	11.8	56.2	29	6	US-10-858-146-647	Sequence 647, App
171	11.8	56.2	30	6	US-10-858-013-446	Sequence 446, App
172	11.8	56.2	30	6	US-10-858-013-451	Sequence 451, App
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174	11.8	56.2	30	6	US-10-858-164-446	Sequence 446, App
175	11.8	56.2	30	6	US-10-858-164-451	Sequence 451, App
176	11.8	56.2	30	6	US-10-858-164-490	Sequence 490, App
177	11.8	56.2	30	6	US-10-858-146-446	Sequence 446, App
178	11.8	56.2	30	6	US-10-858-146-451	Sequence 451, App
179	11.8	56.2	30	6	US-10-858-146-490	Sequence 490, App

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181	11.6	55.2	23	6	US-10-515-051-117	Sequence 117, App
c 182	11.6	55.2	24	6	US-10-554-887-79	Sequence 79, Appl
c 183	11.6	55.2	25	8	US-11-217-529-87245	Sequence 87245, A
c 184	11.6	55.2	25	9	US-11-348-413-94040	Sequence 94040, A
c 185	11.6	55.2	25	9	US-11-348-413-455776	Sequence 455776,
c 186	11.6	55.2	25	9	US-11-348-413-455777	Sequence 455777,
c 187	11.6	55.2	25	9	US-11-348-413-455778	Sequence 455778,
c 188	11.6	55.2	25	9	US-11-348-413-455779	Sequence 455779,
c 189	11.6	55.2	25	9	US-11-348-413-455780	Sequence 455780,
c 190	11.6	55.2	25	9	US-11-348-413-455781	Sequence 455781,
c 191	11.6	55.2	25	9	US-11-348-413-685251	Sequence 685251,
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c 193	11.6	55.2	25	9	US-11-348-413-886027	Sequence 886027,
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195	11.6	55.2	25	9	US-11-348-413-1055034	Sequence 1055034,
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c 197	11.6	55.2	25	9	US-11-348-413-1098019	Sequence 1098019,
c 198	11.6	55.2	25	9	US-11-348-413-1098020	Sequence 1098020,
c 199	11.6	55.2	25	9	US-11-348-413-1098021	Sequence 1098021,
c 200	11.6	55.2	25	9	US-11-348-413-1098022	Sequence 1098022,
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c 202	11.4	54.3	20	7	US-11-366-965-3009	Sequence 3009, Ap
c 203	11.4	54.3	21	7	US-11-334-776-282	Sequence 282, App
c 204	11.4	54.3	21	7	US-11-303-745-206	Sequence 206, App
205	11.4	54.3	22	9	US-11-238-035-41	Sequence 41, Appl
206	11.4	54.3	22	9	US-11-238-035-53	Sequence 53, Appl
c 207	11.4	54.3	24	7	US-11-231-318-194	Sequence 194, App
c 208	11.4	54.3	25	8	US-11-217-529-8909	Sequence 8909, Ap
209	11.4	54.3	25	8	US-11-217-529-123635	Sequence 123635,
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212	11.4	54.3	25	8	US-11-217-529-135975	Sequence 135975,
c 213	11.4	54.3	25	8	US-11-217-529-178436	Sequence 178436,
c 214	11.4	54.3	25	8	US-11-217-529-189006	Sequence 189006,
215	11.4	54.3	25	9	US-11-348-413-93140	Sequence 93140, A
c 216	11.4	54.3	25	9	US-11-348-413-300035	Sequence 300035,
217	11.4	54.3	25	9	US-11-348-413-320370	Sequence 320370,
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225	11.4	54.3	25	9	US-11-348-413-510375	Sequence 510375,
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c 231	11.4	54.3	25	9	US-11-348-413-545469	Sequence 545469,
c 232	11.4	54.3	25	9	US-11-348-413-545470	Sequence 545470,
c 233	11.4	54.3	25	9	US-11-348-413-545471	Sequence 545471,
c 234	11.4	54.3	25	9	US-11-348-413-613979	Sequence 613979,
c 235	11.4	54.3	25	9	US-11-348-413-613980	Sequence 613980,
c 236	11.4	54.3	25	9	US-11-348-413-662283	Sequence 662283,
c 237	11.4	54.3	25	9	US-11-348-413-662284	Sequence 662284,
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239	11.4	54.3	25	9	US-11-348-413-867737	Sequence 867737,
c 240	11.4	54.3	25	9	US-11-348-413-923362	Sequence 923362,

c 241	11.4	54.3	25	9	US-11-348-413-1078110	Sequence 1078110,
242	11.4	54.3	25	9	US-11-348-413-1085215	Sequence 1085215,
243	11.4	54.3	25	9	US-11-348-413-1152586	Sequence 1152586,
244	11.4	54.3	25	9	US-11-348-413-1161344	Sequence 1161344,
245	11.4	54.3	25	9	US-11-348-413-1161345	Sequence 1161345,
246	11.4	54.3	25	9	US-11-348-413-1161346	Sequence 1161346,
c 247	11.4	54.3	25	9	US-11-348-413-1197939	Sequence 1197939,
c 248	11.4	54.3	25	9	US-11-348-413-1206488	Sequence 1206488,
c 249	11.4	54.3	25	9	US-11-348-413-1206489	Sequence 1206489,
c 250	11.4	54.3	25	9	US-11-348-413-1206490	Sequence 1206490,
c 251	11.4	54.3	29	7	US-11-218-976-41	Sequence 41, Appl
c 252	11.2	53.3	17	9	US-11-255-139A-5846	Sequence 5846, Ap
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254	11.2	53.3	21	7	US-11-370-584-10793	Sequence 10793, A
c 255	11.2	53.3	22	7	US-11-398-765-14	Sequence 14, Appl
c 256	11.2	53.3	24	6	US-10-537-228A-2	Sequence 2, Appli
c 257	11.2	53.3	24	6	US-10-537-228A-56	Sequence 56, Appl
c 258	11.2	53.3	25	8	US-11-217-529-23373	Sequence 23373, A
c 259	11.2	53.3	25	8	US-11-217-529-52328	Sequence 52328, A
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c 261	11.2	53.3	25	8	US-11-217-529-72953	Sequence 72953, A
262	11.2	53.3	25	8	US-11-217-529-91571	Sequence 91571, A
263	11.2	53.3	25	8	US-11-217-529-101130	Sequence 101130,
c 264	11.2	53.3	25	8	US-11-217-529-107647	Sequence 107647,
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266	11.2	53.3	25	8	US-11-217-529-177112	Sequence 177112,
267	11.2	53.3	25	8	US-11-217-529-177116	Sequence 177116,
268	11.2	53.3	25	8	US-11-217-529-177117	Sequence 177117,
269	11.2	53.3	25	8	US-11-217-529-177120	Sequence 177120,
270	11.2	53.3	25	8	US-11-217-529-177121	Sequence 177121,
271	11.2	53.3	25	8	US-11-217-529-177122	Sequence 177122,
c 272	11.2	53.3	25	8	US-11-217-529-196035	Sequence 196035,
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c 274	11.2	53.3	25	9	US-11-348-413-30414	Sequence 30414, A
c 275	11.2	53.3	25	9	US-11-348-413-30415	Sequence 30415, A
c 276	11.2	53.3	25	9	US-11-348-413-47355	Sequence 47355, A
c 277	11.2	53.3	25	9	US-11-348-413-47356	Sequence 47356, A
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281	11.2	53.3	25	9	US-11-348-413-104872	Sequence 104872,
c 282	11.2	53.3	25	9	US-11-348-413-353065	Sequence 353065,
c 283	11.2	53.3	25	9	US-11-348-413-362001	Sequence 362001,
c 284	11.2	53.3	25	9	US-11-348-413-362002	Sequence 362002,
c 285	11.2	53.3	25	9	US-11-348-413-362003	Sequence 362003,
c 286	11.2	53.3	25	9	US-11-348-413-362004	Sequence 362004,
c 287	11.2	53.3	25	9	US-11-348-413-362005	Sequence 362005,
c 288	11.2	53.3	25	9	US-11-348-413-362006	Sequence 362006,
c 289	11.2	53.3	25	9	US-11-348-413-362007	Sequence 362007,
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291	11.2	53.3	25	9	US-11-348-413-362032	Sequence 362032,
292	11.2	53.3	25	9	US-11-348-413-362033	Sequence 362033,
293	11.2	53.3	25	9	US-11-348-413-362034	Sequence 362034,
294	11.2	53.3	25	9	US-11-348-413-362035	Sequence 362035,
295	11.2	53.3	25	9	US-11-348-413-362036	Sequence 362036,
296	11.2	53.3	25	9	US-11-348-413-362037	Sequence 362037,
297	11.2	53.3	25	9	US-11-348-413-362038	Sequence 362038,
298	11.2	53.3	25	9	US-11-348-413-362039	Sequence 362039,
299	11.2	53.3	25	9	US-11-348-413-368970	Sequence 368970,
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c	304	11.2	53.3	25	9	US-11-348-413-450445	Sequence 450445,
c	305	11.2	53.3	25	9	US-11-348-413-618242	Sequence 618242,
c	306	11.2	53.3	25	9	US-11-348-413-690185	Sequence 690185,
	307	11.2	53.3	25	9	US-11-348-413-830450	Sequence 830450,
c	308	11.2	53.3	25	9	US-11-348-413-991225	Sequence 991225,
	309	11.2	53.3	25	9	US-11-348-413-1000518	Sequence 1000518,
	310	11.2	53.3	25	9	US-11-348-413-1000519	Sequence 1000519,
	311	11.2	53.3	25	9	US-11-348-413-1001191	Sequence 1001191,
	312	11.2	53.3	25	9	US-11-348-413-1001192	Sequence 1001192,
	313	11.2	53.3	25	9	US-11-348-413-1001193	Sequence 1001193,
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	315	11.2	53.3	25	9	US-11-348-413-1007622	Sequence 1007622,
	316	11.2	53.3	25	9	US-11-348-413-1007631	Sequence 1007631,
	317	11.2	53.3	25	9	US-11-348-413-1019845	Sequence 1019845,
	318	11.2	53.3	25	9	US-11-348-413-1019846	Sequence 1019846,
c	319	11.2	53.3	25	9	US-11-348-413-1090575	Sequence 1090575,
c	320	11.2	53.3	25	9	US-11-348-413-1092500	Sequence 1092500,
	321	11.2	53.3	27	6	US-10-354-953-666	Sequence 666, App
	322	11.2	53.3	28	6	US-10-354-953-1056	Sequence 1056, Ap
c	323	11.2	53.3	30	6	US-10-221-036-12	Sequence 12, Appl
	324	11.2	53.3	30	6	US-10-221-036-13	Sequence 13, Appl
	325	11.2	53.3	30	9	US-11-369-089-17	Sequence 17, Appl
c	326	11	52.4	18	6	US-10-551-964-40	Sequence 40, Appl
	327	11	52.4	19	7	US-11-303-452-1763	Sequence 1763, Ap
	328	11	52.4	19	7	US-11-303-452-1765	Sequence 1765, Ap
c	329	11	52.4	20	6	US-10-469-938A-186	Sequence 186, App
	330	11	52.4	20	6	US-10-533-166-30	Sequence 30, Appl
c	331	11	52.4	20	6	US-10-533-166-31	Sequence 31, Appl
	332	11	52.4	20	7	US-11-376-033-141	Sequence 141, App
	333	11	52.4	20	7	US-11-376-033-262	Sequence 262, App
	334	11	52.4	20	9	US-11-334-885-2	Sequence 2, Appli
c	335	11	52.4	20	9	US-11-334-885-3	Sequence 3, Appli
c	336	11	52.4	24	7	US-11-231-318-1496	Sequence 1496, Ap
	337	11	52.4	25	8	US-11-217-529-36261	Sequence 36261, A
	338	11	52.4	25	8	US-11-217-529-46451	Sequence 46451, A
	339	11	52.4	25	8	US-11-217-529-46453	Sequence 46453, A
c	340	11	52.4	25	8	US-11-217-529-83993	Sequence 83993, A
	341	11	52.4	25	8	US-11-217-529-99066	Sequence 99066, A
	342	11	52.4	25	8	US-11-217-529-142727	Sequence 142727,
	343	11	52.4	25	8	US-11-217-529-155214	Sequence 155214,
	344	11	52.4	25	8	US-11-217-529-155216	Sequence 155216,
	345	11	52.4	25	8	US-11-217-529-161321	Sequence 161321,
	346	11	52.4	25	8	US-11-217-529-170080	Sequence 170080,
	347	11	52.4	25	8	US-11-217-529-183014	Sequence 183014,
	348	11	52.4	25	8	US-11-217-529-183017	Sequence 183017,
	349	11	52.4	25	8	US-11-217-529-183019	Sequence 183019,
	350	11	52.4	25	8	US-11-217-529-183020	Sequence 183020,
	351	11	52.4	25	8	US-11-217-529-183023	Sequence 183023,
	352	11	52.4	25	8	US-11-217-529-194051	Sequence 194051,
	353	11	52.4	25	8	US-11-217-529-194055	Sequence 194055,
c	354	11	52.4	25	9	US-11-348-413-53856	Sequence 53856, A
c	355	11	52.4	25	9	US-11-348-413-272429	Sequence 272429,
c	356	11	52.4	25	9	US-11-348-413-272430	Sequence 272430,
c	357	11	52.4	25	9	US-11-348-413-272431	Sequence 272431,
c	358	11	52.4	25	9	US-11-348-413-272432	Sequence 272432,
c	359	11	52.4	25	9	US-11-348-413-272433	Sequence 272433,
c	360	11	52.4	25	9	US-11-348-413-642739	Sequence 642739,
	361	11	52.4	25	9	US-11-348-413-662761	Sequence 662761,
c	362	11	52.4	25	9	US-11-348-413-775501	Sequence 775501,

	363	11	52.4	25	9	US-11-348-413-781139	Sequence 781139,
c	364	11	52.4	25	9	US-11-348-413-785630	Sequence 785630,
	365	11	52.4	25	9	US-11-348-413-788240	Sequence 788240,
c	366	11	52.4	25	9	US-11-348-413-833728	Sequence 833728,
c	367	11	52.4	25	9	US-11-348-413-887118	Sequence 887118,
c	368	11	52.4	25	9	US-11-348-413-963709	Sequence 963709,
	369	11	52.4	25	9	US-11-348-413-993263	Sequence 993263,
	370	11	52.4	25	9	US-11-348-413-1060782	Sequence 1060782,
c	371	11	52.4	25	9	US-11-348-413-1073494	Sequence 1073494,
c	372	11	52.4	25	9	US-11-348-413-1269197	Sequence 1269197,
c	373	11	52.4	27	6	US-10-529-169-10	Sequence 10, Appl
	374	11	52.4	30	6	US-10-507-446A-5	Sequence 5, Appli
	375	11	52.4	30	6	US-10-522-341A-152	Sequence 152, App
c	376	11	52.4	30	7	US-11-015-117-29	Sequence 29, Appl
	377	10.8	51.4	15	6	US-10-858-013-477	Sequence 477, App
	378	10.8	51.4	15	6	US-10-858-164-477	Sequence 477, App
	379	10.8	51.4	15	6	US-10-858-146-477	Sequence 477, App
	380	10.8	51.4	18	7	US-11-266-999-47	Sequence 47, Appl
	381	10.8	51.4	18	9	US-11-267-423-47	Sequence 47, Appl
	382	10.8	51.4	20	7	US-11-303-745-18	Sequence 18, Appl
	383	10.8	51.4	20	7	US-11-376-033-333	Sequence 333, App
	384	10.8	51.4	20	7	US-11-376-033-334	Sequence 334, App
	385	10.8	51.4	20	7	US-11-376-033-335	Sequence 335, App
	386	10.8	51.4	20	7	US-11-366-965-2376	Sequence 2376, Ap
c	387	10.8	51.4	21	7	US-11-334-776-283	Sequence 283, App
	388	10.8	51.4	21	7	US-11-303-745-36	Sequence 36, Appl
c	389	10.8	51.4	21	7	US-11-303-745-62	Sequence 62, Appl
c	390	10.8	51.4	21	7	US-11-303-745-207	Sequence 207, App
c	391	10.8	51.4	21	7	US-11-303-745-307	Sequence 307, App
	392	10.8	51.4	21	7	US-11-231-318-3	Sequence 3, Appli
c	393	10.8	51.4	21	7	US-11-231-318-30	Sequence 30, Appl
	394	10.8	51.4	21	7	US-11-231-318-1709	Sequence 1709, Ap
	395	10.8	51.4	21	7	US-11-231-318-1710	Sequence 1710, Ap
	396	10.8	51.4	21	7	US-11-393-206-35	Sequence 35, Appl
c	397	10.8	51.4	21	7	US-11-393-206-93	Sequence 93, Appl
c	398	10.8	51.4	22	7	US-11-318-659-4	Sequence 4, Appli
	399	10.8	51.4	23	6	US-10-858-013-467	Sequence 467, App
	400	10.8	51.4	23	6	US-10-858-164-467	Sequence 467, App
	401	10.8	51.4	23	6	US-10-858-146-467	Sequence 467, App
	402	10.8	51.4	25	8	US-11-217-529-58036	Sequence 58036, A
	403	10.8	51.4	25	8	US-11-217-529-60167	Sequence 60167, A
	404	10.8	51.4	25	8	US-11-217-529-64015	Sequence 64015, A
	405	10.8	51.4	25	8	US-11-217-529-110801	Sequence 110801,
c	406	10.8	51.4	25	8	US-11-217-529-133867	Sequence 133867,
	407	10.8	51.4	25	8	US-11-217-529-134812	Sequence 134812,
	408	10.8	51.4	25	8	US-11-217-529-134820	Sequence 134820,
	409	10.8	51.4	25	8	US-11-217-529-137998	Sequence 137998,
	410	10.8	51.4	25	8	US-11-217-529-150529	Sequence 150529,
	411	10.8	51.4	25	8	US-11-217-529-165114	Sequence 165114,
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c	413	10.8	51.4	25	9	US-11-348-413-78034	Sequence 78034, A
c	414	10.8	51.4	25	9	US-11-348-413-78035	Sequence 78035, A
c	415	10.8	51.4	25	9	US-11-348-413-78036	Sequence 78036, A
c	416	10.8	51.4	25	9	US-11-348-413-78037	Sequence 78037, A
c	417	10.8	51.4	25	9	US-11-348-413-78038	Sequence 78038, A
c	418	10.8	51.4	25	9	US-11-348-413-78039	Sequence 78039, A
c	419	10.8	51.4	25	9	US-11-348-413-78040	Sequence 78040, A
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c	423	10.8	51.4	25	9	US-11-348-413-231655	Sequence 231655,

c 424	10.8	51.4	25	9	US-11-348-413-231656	Sequence 231656,
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426	10.8	51.4	25	9	US-11-348-413-334098	Sequence 334098,
427	10.8	51.4	25	9	US-11-348-413-338957	Sequence 338957,
428	10.8	51.4	25	9	US-11-348-413-338958	Sequence 338958,
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430	10.8	51.4	25	9	US-11-348-413-338960	Sequence 338960,
431	10.8	51.4	25	9	US-11-348-413-362040	Sequence 362040,
432	10.8	51.4	25	9	US-11-348-413-362041	Sequence 362041,
c 433	10.8	51.4	25	9	US-11-348-413-387700	Sequence 387700,
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c 437	10.8	51.4	25	9	US-11-348-413-680008	Sequence 680008,
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c 442	10.8	51.4	25	9	US-11-348-413-1000480	Sequence 1000480,
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c 444	10.8	51.4	25	9	US-11-348-413-1022974	Sequence 1022974,
c 445	10.8	51.4	25	9	US-11-348-413-1026809	Sequence 1026809,
446	10.8	51.4	25	9	US-11-348-413-1050992	Sequence 1050992,
447	10.8	51.4	26	6	US-10-858-013-506	Sequence 506, App
448	10.8	51.4	26	6	US-10-858-164-506	Sequence 506, App
449	10.8	51.4	26	6	US-10-858-146-506	Sequence 506, App
450	10.8	51.4	26	8	US-11-178-538-43	Sequence 43, Appl
451	10.8	51.4	26	8	US-11-322-523-2	Sequence 2, Appli
452	10.8	51.4	28	6	US-10-858-013-488	Sequence 488, App
453	10.8	51.4	28	6	US-10-858-164-488	Sequence 488, App
454	10.8	51.4	28	6	US-10-858-146-488	Sequence 488, App
455	10.8	51.4	30	6	US-10-858-013-493	Sequence 493, App
456	10.8	51.4	30	6	US-10-858-164-493	Sequence 493, App
457	10.8	51.4	30	6	US-10-858-146-493	Sequence 493, App
c 458	10.6	50.5	19	6	US-10-825-485-43	Sequence 43, Appl
459	10.6	50.5	19	6	US-10-825-485-350	Sequence 350, App
460	10.6	50.5	19	7	US-11-303-452-1647	Sequence 1647, Ap
461	10.6	50.5	19	7	US-11-303-452-1761	Sequence 1761, Ap
462	10.6	50.5	19	7	US-11-360-305-1001	Sequence 1001, Ap
c 463	10.6	50.5	19	9	US-11-217-936-2874	Sequence 2874, Ap
464	10.6	50.5	19	9	US-11-217-936-3101	Sequence 3101, Ap
465	10.6	50.5	20	7	US-11-370-584-11616	Sequence 11616, A
466	10.6	50.5	20	9	US-11-293-598-29	Sequence 29, Appl
467	10.6	50.5	21	6	US-10-511-937-1461	Sequence 1461, Ap
468	10.6	50.5	21	7	US-11-370-584-10682	Sequence 10682, A
469	10.6	50.5	22	6	US-10-354-953-681	Sequence 681, App
c 470	10.6	50.5	22	7	US-11-078-841-5	Sequence 5, Appli
471	10.6	50.5	23	7	US-11-112-926-566	Sequence 566, App
c 472	10.6	50.5	23	8	US-11-283-550-1332	Sequence 1332, Ap
c 473	10.6	50.5	23	8	US-11-283-550-1333	Sequence 1333, Ap
c 474	10.6	50.5	23	8	US-11-283-550-1334	Sequence 1334, Ap
c 475	10.6	50.5	23	8	US-11-283-550-1335	Sequence 1335, Ap
c 476	10.6	50.5	23	8	US-11-283-550-1336	Sequence 1336, Ap
c 477	10.6	50.5	23	8	US-11-283-550-1337	Sequence 1337, Ap
c 478	10.6	50.5	23	8	US-11-283-550-1338	Sequence 1338, Ap
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	487	10.6	50.5	25	8	US-11-217-529-94617	Sequence 94617, A
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	526	10.6	50.5	25	9	US-11-348-413-644395	Sequence 644395,
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	530	10.6	50.5	25	9	US-11-348-413-655791	Sequence 655791,
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	532	10.6	50.5	25	9	US-11-348-413-681623	Sequence 681623,
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	535	10.6	50.5	25	9	US-11-348-413-710746	Sequence 710746,
	536	10.6	50.5	25	9	US-11-348-413-716958	Sequence 716958,
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c	542	10.6	50.5	25	9	US-11-348-413-822549	Sequence 822549,
c	543	10.6	50.5	25	9	US-11-348-413-852093	Sequence 852093,
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	545	10.6	50.5	25	9	US-11-348-413-877269	Sequence 877269,

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	551	10.6	50.5	25	9	US-11-348-413-1055032	Sequence 1055032,
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	556	10.6	50.5	25	9	US-11-348-413-1126404	Sequence 1126404,
	557	10.6	50.5	25	9	US-11-348-413-1126405	Sequence 1126405,
	558	10.6	50.5	25	9	US-11-348-413-1126406	Sequence 1126406,
c	559	10.6	50.5	25	9	US-11-348-413-1126434	Sequence 1126434,
c	560	10.6	50.5	26	7	US-11-374-326-183	Sequence 183, App
c	561	10.6	50.5	27	9	US-11-372-216-9	Sequence 9, Appli
c	562	10.6	50.5	30	6	US-10-723-683-1039	Sequence 1039, Ap
	563	10.4	49.5	15	7	US-11-320-072-237	Sequence 237, App
	564	10.4	49.5	17	6	US-10-559-426-48	Sequence 48, Appl
c	565	10.4	49.5	18	6	US-10-536-932-42	Sequence 42, Appl
	566	10.4	49.5	18	7	US-11-370-584-4482	Sequence 4482, Ap
c	567	10.4	49.5	19	9	US-11-217-936-2277	Sequence 2277, Ap
	568	10.4	49.5	19	9	US-11-217-936-2572	Sequence 2572, Ap
c	569	10.4	49.5	20	6	US-10-511-937-963	Sequence 963, App
	570	10.4	49.5	20	6	US-10-553-298-32	Sequence 32, Appl
c	571	10.4	49.5	20	6	US-10-535-914-17	Sequence 17, Appl
c	572	10.4	49.5	20	6	US-10-670-984-1245	Sequence 1245, Ap
	573	10.4	49.5	20	6	US-10-539-178-107	Sequence 107, App
c	574	10.4	49.5	20	6	US-10-526-543-22	Sequence 22, Appl
	575	10.4	49.5	20	7	US-11-375-359-521	Sequence 521, App
	576	10.4	49.5	20	7	US-11-073-360-17276	Sequence 17276, A
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	578	10.4	49.5	20	7	US-11-366-965-5389	Sequence 5389, Ap
	579	10.4	49.5	20	7	US-11-213-593-87	Sequence 87, Appl
c	580	10.4	49.5	20	8	US-11-257-502-154	Sequence 154, App
c	581	10.4	49.5	20	8	US-11-178-724-42	Sequence 42, Appl
	582	10.4	49.5	21	6	US-10-858-013-468	Sequence 468, App
	583	10.4	49.5	21	6	US-10-858-013-641	Sequence 641, App
	584	10.4	49.5	21	6	US-10-858-164-468	Sequence 468, App
	585	10.4	49.5	21	6	US-10-858-164-641	Sequence 641, App
	586	10.4	49.5	21	6	US-10-858-146-468	Sequence 468, App
	587	10.4	49.5	21	6	US-10-858-146-641	Sequence 641, App
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	589	10.4	49.5	21	7	US-11-317-660-1031	Sequence 1031, Ap
c	590	10.4	49.5	22	6	US-10-539-178-382	Sequence 382, App
	591	10.4	49.5	22	7	US-11-374-326-21	Sequence 21, Appl
c	592	10.4	49.5	23	7	US-11-299-391-2633	Sequence 2633, Ap
c	593	10.4	49.5	23	7	US-11-340-080-285	Sequence 285, App
c	594	10.4	49.5	23	7	US-11-340-080-286	Sequence 286, App
c	595	10.4	49.5	23	7	US-11-340-080-287	Sequence 287, App
c	596	10.4	49.5	23	7	US-11-340-080-288	Sequence 288, App
c	597	10.4	49.5	23	8	US-11-257-502-167	Sequence 167, App
c	598	10.4	49.5	23	8	US-11-078-073-285	Sequence 285, App
c	599	10.4	49.5	23	8	US-11-078-073-286	Sequence 286, App
c	600	10.4	49.5	23	8	US-11-078-073-287	Sequence 287, App
c	601	10.4	49.5	23	8	US-11-078-073-288	Sequence 288, App
c	602	10.4	49.5	23	8	US-11-337-300-163	Sequence 163, App
c	603	10.4	49.5	23	9	US-11-292-414-27	Sequence 27, Appl
	604	10.4	49.5	24	6	US-10-511-937-2367	Sequence 2367, Ap
c	605	10.4	49.5	24	6	US-10-972-296-18	Sequence 18, Appl
	606	10.4	49.5	25	6	US-10-858-013-462	Sequence 462, App

	607	10.4	49.5	25	6	US-10-858-013-479	Sequence 479, App
	608	10.4	49.5	25	6	US-10-858-164-462	Sequence 462, App
	609	10.4	49.5	25	6	US-10-858-164-479	Sequence 479, App
	610	10.4	49.5	25	6	US-10-858-146-462	Sequence 462, App
	611	10.4	49.5	25	6	US-10-858-146-479	Sequence 479, App
c	612	10.4	49.5	25	7	US-11-404-939-187	Sequence 187, App
c	613	10.4	49.5	25	8	US-11-217-529-11922	Sequence 11922, A
c	614	10.4	49.5	25	8	US-11-217-529-24134	Sequence 24134, A
c	615	10.4	49.5	25	8	US-11-217-529-25587	Sequence 25587, A
c	616	10.4	49.5	25	8	US-11-217-529-30810	Sequence 30810, A
	617	10.4	49.5	25	8	US-11-217-529-54704	Sequence 54704, A
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c	621	10.4	49.5	25	8	US-11-217-529-89329	Sequence 89329, A
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	627	10.4	49.5	25	8	US-11-217-529-150071	Sequence 150071,
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c 674	10.4	49.5	25	9	US-11-348-413-334166	Sequence 334166,
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c 716	10.4	49.5	25	9	US-11-348-413-923361	Sequence 923361,
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	738	10.4	49.5	25	9	US-11-348-413-1109622	Sequence 1109622,
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	741	10.4	49.5	26	6	US-10-525-725-13	Sequence 13, Appl
	742	10.4	49.5	26	7	US-11-260-845-316	Sequence 316, App
c	743	10.4	49.5	26	7	US-11-196-503A-80	Sequence 80, Appl
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	745	10.4	49.5	27	6	US-10-537-767-6	Sequence 6, Appli
	746	10.4	49.5	27	7	US-11-299-391-4209	Sequence 4209, Ap
c	747	10.4	49.5	28	6	US-10-858-013-841	Sequence 841, App
c	748	10.4	49.5	28	6	US-10-858-013-842	Sequence 842, App
c	749	10.4	49.5	28	6	US-10-858-013-843	Sequence 843, App
c	750	10.4	49.5	28	6	US-10-858-164-841	Sequence 841, App
c	751	10.4	49.5	28	6	US-10-858-164-842	Sequence 842, App
c	752	10.4	49.5	28	6	US-10-858-164-843	Sequence 843, App
c	753	10.4	49.5	28	6	US-10-858-146-841	Sequence 841, App
c	754	10.4	49.5	28	6	US-10-858-146-842	Sequence 842, App
c	755	10.4	49.5	28	6	US-10-858-146-843	Sequence 843, App
c	756	10.4	49.5	28	6	US-10-534-043-16	Sequence 16, Appl
	757	10.4	49.5	28	7	US-11-299-391-4207	Sequence 4207, Ap
c	758	10.4	49.5	28	7	US-11-299-391-4207	Sequence 4207, Ap
	759	10.4	49.5	28	7	US-11-299-391-4208	Sequence 4208, Ap
c	760	10.4	49.5	28	7	US-11-299-391-4208	Sequence 4208, Ap
c	761	10.4	49.5	29	6	US-10-529-593-68	Sequence 68, Appl
	762	10.4	49.5	29	7	US-11-299-391-4206	Sequence 4206, Ap
c	763	10.4	49.5	29	7	US-11-299-391-4206	Sequence 4206, Ap
	764	10.4	49.5	30	6	US-10-503-199-14	Sequence 14, Appl
	765	10.4	49.5	30	6	US-10-723-683-232	Sequence 232, App
	766	10.4	49.5	30	7	US-11-130-545-3	Sequence 3, Appli
	767	10.4	49.5	30	7	US-11-299-391-4188	Sequence 4188, Ap
c	768	10.4	49.5	30	7	US-11-299-391-4188	Sequence 4188, Ap
	769	10.4	49.5	30	7	US-11-381-977-39	Sequence 39, Appl
c	770	10.4	49.5	30	8	US-11-248-986-6	Sequence 6, Appli
c	771	10.2	48.6	17	6	US-10-533-300-4	Sequence 4, Appli
c	772	10.2	48.6	17	7	US-11-368-141-97	Sequence 97, Appl
c	773	10.2	48.6	17	9	US-11-255-139A-4913	Sequence 4913, Ap
c	774	10.2	48.6	18	7	US-11-370-584-11574	Sequence 11574, A
	775	10.2	48.6	19	6	US-10-511-937-2316	Sequence 2316, Ap
	776	10.2	48.6	19	6	US-10-424-339-398	Sequence 398, App
c	777	10.2	48.6	19	6	US-10-424-339-422	Sequence 422, App
c	778	10.2	48.6	19	6	US-10-424-339-503	Sequence 503, App
	779	10.2	48.6	19	6	US-10-424-339-527	Sequence 527, App
c	780	10.2	48.6	19	6	US-10-825-485-289	Sequence 289, App
	781	10.2	48.6	19	6	US-10-825-485-596	Sequence 596, App
	782	10.2	48.6	19	6	US-10-753-718-2974	Sequence 2974, Ap
c	783	10.2	48.6	19	7	US-11-287-460-37	Sequence 37, Appl
c	784	10.2	48.6	19	7	US-11-207-119A-36	Sequence 36, Appl
	785	10.2	48.6	19	7	US-11-207-119A-86	Sequence 86, Appl
c	786	10.2	48.6	19	8	US-11-134-445-40	Sequence 40, Appl
	787	10.2	48.6	19	9	US-11-217-936-1192	Sequence 1192, Ap
c	788	10.2	48.6	19	9	US-11-217-936-1661	Sequence 1661, Ap
c	789	10.2	48.6	19	9	US-11-184-982-40	Sequence 40, Appl

c	790	10.2	48.6	20	6	US-10-354-953-645	Sequence 645, App
c	791	10.2	48.6	20	7	US-11-287-460-27	Sequence 27, Appl
	792	10.2	48.6	20	7	US-11-277-750-1	Sequence 1, Appli
c	793	10.2	48.6	20	7	US-11-366-965-5243	Sequence 5243, Ap
c	794	10.2	48.6	20	8	US-11-134-445-27	Sequence 27, Appl
	795	10.2	48.6	20	9	US-11-294-621-143	Sequence 143, App
c	796	10.2	48.6	20	9	US-11-184-982-27	Sequence 27, Appl
c	797	10.2	48.6	21	7	US-11-355-711-2	Sequence 2, Appli
	798	10.2	48.6	21	7	US-11-355-711-3	Sequence 3, Appli
	799	10.2	48.6	21	7	US-11-483-855-14	Sequence 14, Appl
	800	10.2	48.6	21	9	US-11-311-827-6	Sequence 6, Appli
	801	10.2	48.6	21	9	US-11-331-854-30	Sequence 30, Appl
c	802	10.2	48.6	22	7	US-11-112-926-728	Sequence 728, App
c	803	10.2	48.6	23	7	US-11-407-248-49	Sequence 49, Appl
	804	10.2	48.6	25	6	US-10-858-013-478	Sequence 478, App
c	805	10.2	48.6	25	6	US-10-557-586-15	Sequence 15, Appl
	806	10.2	48.6	25	6	US-10-858-164-478	Sequence 478, App
	807	10.2	48.6	25	6	US-10-858-146-478	Sequence 478, App
	808	10.2	48.6	25	7	US-11-389-343-570	Sequence 570, App
	809	10.2	48.6	25	7	US-11-389-017-570	Sequence 570, App
	810	10.2	48.6	25	8	US-11-217-529-6667	Sequence 6667, Ap
	811	10.2	48.6	25	8	US-11-217-529-16115	Sequence 16115, A
c	812	10.2	48.6	25	8	US-11-217-529-17029	Sequence 17029, A
	813	10.2	48.6	25	8	US-11-217-529-18729	Sequence 18729, A
	814	10.2	48.6	25	8	US-11-217-529-22383	Sequence 22383, A
c	815	10.2	48.6	25	8	US-11-217-529-27175	Sequence 27175, A
	816	10.2	48.6	25	8	US-11-217-529-27814	Sequence 27814, A
	817	10.2	48.6	25	8	US-11-217-529-30348	Sequence 30348, A
c	818	10.2	48.6	25	8	US-11-217-529-49392	Sequence 49392, A
c	819	10.2	48.6	25	8	US-11-217-529-56076	Sequence 56076, A
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ALIGNMENTS

RESULT 1
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; Sequence 622759, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 622759·
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
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;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 473; WAN01UJDJ_at; Start 1639; Stop 1663;
;    OTHER INFORMATION: 111111100000000
US-11-348-413-622759
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RESULT 2
US-11-389-343-574
; Sequence 574, Application US/11389343
; Publication No. US20060225150A1
; GENERAL INFORMATION:
;   APPLICANT: HAUGE, Brian M.
;   APPLICANT:  WANG, Ming Li
;   APPLICANT:  PARSONS, Jeremy David
;   APPLICANT:  PARNELL, Laurence David
;   TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;   TITLE OF INVENTION:  Soybean Cyst Nematode Resistance
;   FILE REFERENCE: 16517.329
;   CURRENT APPLICATION NUMBER: US/11/389,343
;   CURRENT FILING DATE:  2006-03-27
;   PRIOR APPLICATION NUMBER: US/09/754,853
;   PRIOR FILING DATE: 2001-01-05
;   PRIOR APPLICATION NUMBER: US 60/174,880
;   PRIOR FILING DATE: 2000-01-07
;   NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 574
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Glycine max
;    FEATURE:
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US-11-389-343-574
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RESULT 3
US-11-389-017-574
; Sequence 574, Application US/11389017
; Publication No. US20060253919A1
; GENERAL INFORMATION:
;   APPLICANT: Hauge, Brian M.
;   APPLICANT:  Parnell, Laurence D.
;   APPLICANT:  Parsons, Jeremy D.
;   APPLICANT:  Wang, Ming Li
;   TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
;   TITLE OF INVENTION:  Soybean Cyst Nematode Resistance
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;   FILE REFERENCE: 38-10(15810)B
;   CURRENT APPLICATION NUMBER: US/11/389,017
;   CURRENT FILING DATE:   2006-03-27
;   PRIOR APPLICATION NUMBER: US 60/174,880
;   PRIOR FILING DATE: 2000-01-07
;   NUMBER OF SEQ ID NOS: 1119
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;    LENGTH: 25
;    TYPE: DNA
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US-11-389-017-574

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RESULT 4
US-11-217-529-137062/c
; Sequence 137062, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
;  APPLICANT: SUNTORY LIMITED
;  APPLICANT:  NAKAO, YOSHIHIRO
;  APPLICANT:  NAKAMURA, NORIHISA
;  APPLICANT:  KODAMA, YUKIKO
;  APPLICANT:  FUJIMURA, TOMOKO
;  APPLICANT:  ASHIKARI, TOSHIHIKO
;  TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
;  FILE REFERENCE: S-38-285
;  CURRENT APPLICATION NUMBER: US/11/217,529
;  CURRENT FILING DATE:   2005-09-02
;  PRIOR APPLICATION NUMBER: US 10/932,182
;  PRIOR FILING DATE: 2004-09-02
;  NUMBER OF SEQ ID NOS: 197023
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 137062
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Saccharomyces pastorianus
US-11-217-529-137062

   Query Match              62.9%;   Score 13.2;  DB 8;   Length 25;
   Best Local Similarity    55.6%;   Pred. No. 6e+03;
   Matches   10;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy         4 UGCGUGCCUCCUCACUGG 21
             :|||:|||:| :|| : |
Db        23 TGCGTGCCTCATCAATAG 6



RESULT 5
US-10-524-193A-18/c
; Sequence 18, Application US/10524193A
; Publication No. US20060121564A1
```

; GENERAL INFORMATION:
; APPLICANT: NAKASHIMA, NOBUTAKA
; APPLICANT: TAMURA, TOMOHIRO
; TITLE OF INVENTION: NOVEL EXPRESSION VECTOR SUITABLE FOR EXPRESSION OF RECOMBINANT
; TITLE OF INVENTION: PROTEIN AT LOW TEMPERATURE
; FILE REFERENCE: 081356-0232
; CURRENT APPLICATION NUMBER: US/10/524,193A
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: PCT/JP03/10209
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: JP 2002/235008
; PRIOR FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 18
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
;   OTHER INFORMATION: sHN56
US-10-524-193A-18

    Query Match   61.9%; Score 13; DB 6; Length 18;
    Best Local Similarity   76.9%; Pred. No. 7.2e+03;
    Matches   10; Conservative   3; Mismatches   0; Indels   0; Gaps   0;

Qy   2 GCUGCGUGCCUCC 14
              ||:|||:|||:||
Db   15 GCTGCGTGCCTCC 3

RESULT 6
US-11-217-529-36189
; Sequence 36189, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36189
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Saccharomyces pastorianus
US-11-217-529-36189

    Query Match   61.9%; Score 13; DB 8; Length 25;
    Best Local Similarity   57.1%; Pred. No. 7.5e+03;
    Matches   12; Conservative   4; Mismatches   5; Indels   0; Gaps   0;

```
Qy      1 GGCUGCGUGCCUCCUCACUGG 21
          |  |:| |:|||:|  || :||
Db      5 GACTGTGTGCCTCTGCAATGG 25
```

RESULT 7
US-11-217-529-48938
; Sequence 48938, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
.; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 48938
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Saccharomyces pastorianus
US-11-217-529-48938

   Query Match   61.9%; Score 13; DB 8; Length 25;
   Best Local Similarity 61.9%; Pred. No. 7.5e+03;
   Matches   13; Conservative   3; Mismatches   5; Indels   0; Gaps   0;

```
Qy      1 GGCUGCGUGCCUCCUCACUGG 21
          |||:| |: | :|| ||| ||
Db      5 GGCTGAGTACGTCCACACAGG 25
```

RESULT 8
US-11-217-529-68255/c
; Sequence 68255, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68255
;   LENGTH: 25
;   TYPE: DNA

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;    ORGANISM: Saccharomyces pastorianus
US-11-217-529-68255

   Query Match              61.0%;  Score 12.8;  DB 8;  Length 25;
   Best Local Similarity    68.8%;  Pred. No. 9.2e+03;
   Matches   11;  Conservative   3;  Mismatches   2;  Indels   0;  Gaps   0;


Qy         1 GGCUGCGUGCCUCCUC 16
             |||:||| |||: |:|
Db        16 GGCTGCGCGCCTTCTC 1



RESULT 9
US-11-217-529-35669/c
; Sequence 35669, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
;  APPLICANT: SUNTORY LIMITED
;  APPLICANT:  NAKAO, YOSHIHIRO
;  APPLICANT:  NAKAMURA, NORIHISA
;  APPLICANT:  KODAMA, YUKIKO
;  APPLICANT:  FUJIMURA, TOMOKO
;  APPLICANT:  ASHIKARI, TOSHIHIKO
;  TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
;  FILE REFERENCE: S-38-285
;  CURRENT APPLICATION NUMBER: US/11/217,529
;  CURRENT FILING DATE:  2005-09-02
;  PRIOR APPLICATION NUMBER: US 10/932,182
;  PRIOR FILING DATE:. 2004-09-02
;  NUMBER OF SEQ ID NOS: 197023
;  SOFTWARE: PatentIn version 3.3
; SEQ ID NO 35669
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Saccharomyces pastorianus
US-11-217-529-35669

   Query Match              60.0%;  Score 12.6;  DB 8;  Length 25;
   Best Local Similarity    57.9%;  Pred. No. 1.1e+04;
   Matches   11;  Conservative   4;  Mismatches   4;  Indels   0;  Gaps   0;


Qy         1 GGCUGCGUGCCUCCUCACU 19
             |||:|||    :||:|||:
Db        20 GGCTGCGAAGTTCCTCACT 2



RESULT 10
US-11-348-413-648389/c
; Sequence 648389, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
```

; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 648389
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 1151; WAN01UK37_at; Start 98; Stop 122;
;   OTHER INFORMATION: 111111100000000
US-11-348-413-648389

   Query Match   60.0%; Score 12.6; DB 9; Length 25;
   Best Local Similarity 52.6%; Pred. No. 1.1e+04;
   Matches 10; Conservative   5; Mismatches   4; Indels   0; Gaps   0;

Qy   3 CUGCGUGCCUCCUCACUGG 21
              |:|| :|| :| :| |:||
Db   24 CTGCCTGCGTCATCGCTGG 6

RESULT 11
US-10-519-335-18
; Sequence 18, Application US/10519335
; Publication No. US20060099210A1
; GENERAL INFORMATION:
; APPLICANT: Cavarec, Laurent
; APPLICANT: Chumakov, Ilya
; APPLICANT: Destenaves, Benoit
; APPLICANT: Gonthier, Catherine
; APPLICANT: Elias, Isabelle
; TITLE OF INVENTION: NOVEL KCNQ POLYPEPTIDES, MODULATORS THEREOF, AND THEIR USES IN
; TITLE OF INVENTION: TREATMENT OF MENTAL DISORDERS
; FILE REFERENCE: G-194US03PCT
; CURRENT APPLICATION NUMBER: US/10/519,335
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US 60/391,359
; PRIOR FILING DATE: 2002-06-25
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
;   LENGTH: 27
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: oligonucleotide
US-10-519-335-18

   Query Match   60.0%; Score 12.6; DB 6; Length 27;
   Best Local Similarity 63.2%; Pred. No. 1.2e+04;
   Matches 12; Conservative   3; Mismatches   4; Indels   0; Gaps   0;

Qy .   1 GGCUGCGUGCCUCCUCACU 19
              || : || ||| ||:|||:
Db   5 GGATCCGCGCCGCCTCACT 23

RESULT 12
US-10-519-335-22
; Sequence 22, Application US/10519335
; Publication No. US20060099210A1
; GENERAL INFORMATION:
; APPLICANT: Cavarec, Laurent
; APPLICANT: Chumakov, Ilya
; APPLICANT: Destenaves, Benoit
; APPLICANT: Gonthier, Catherine
; APPLICANT: Elias, Isabelle
; TITLE OF INVENTION: NOVEL KCNQ POLYPEPTIDES, MODULATORS THEREOF, AND THEIR USES IN
; TITLE OF INVENTION: TREATMENT OF MENTAL DISORDERS
; FILE REFERENCE: G-194US03PCT
; CURRENT APPLICATION NUMBER: US/10/519,335
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US 60/391,359
; PRIOR FILING DATE: 2002-06-25
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
;   LENGTH: 27
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: oligonucleotide
US-10-519-335-22

   Query Match   60.0%;   Score 12.6; DB 6; Length 27;
   Best Local Similarity 63.2%;   Pred. No. 1.2e+04;
   Matches   12; Conservative   3; Mismatches   4; Indels   0; Gaps   0;

Qy   1 GGCUGCGUGCCUCCUCACU 19
            || : || ||| ||:|||:
Db   5 GGATCCGCGCCGCCTCACT 23

RESULT 13
US-10-529-163-14/c
; Sequence 14, Application US/10529163
; Publication No. US20060223059A1
; GENERAL INFORMATION:
; APPLICANT: YOUSEF, et al.
; TITLE OF INVENTION: Methods for Detecting Endocrine Cancer
; FILE REFERENCE: 11757.82USWO
; CURRENT APPLICATION NUMBER: US/10/529,163
; CURRENT FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: US 60/414,107
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/450,406
; PRIOR FILING DATE: 2003-02-26
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
;   LENGTH: 16
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-10-529-163-14

   Query Match   59.0%;   Score 12.4; DB 6; Length 16;

Best Local Similarity   71.4%;   Pred. No. 1.4e+04;
    Matches   10; Conservative   3; Mismatches   1; Indels   0; Gaps   0;

Qy   1 GGCUGCGUGCCUCC 14
              |||:|| :|||:||
Db   14 GGCTGCTTGCCTCC 1

RESULT 14
US-10-536-369-301
; Sequence 301, Application US/10536369
; Publication No. US20060235625A1
; GENERAL INFORMATION:
;   APPLICANT: Fred Hutchinson Cancer Research Center
;   APPLICANT: Parker, Heidi G.
;   APPLICANT: Kim, Lisa V.
;   APPLICANT: Sutter, Nathan B.
;   APPLICANT: Carlson, Scott
;   APPLICANT: Lorentzen, Travis D.
;   APPLICANT: Malek, Tiffany B.
;   APPLICANT: DeFrance, Hawkins B.
;   APPLICANT: Ostrander, Elaine A.
;   APPLICANT: Kruglyak, Leonid
;   TITLE OF INVENTION: METHODS AND MATERIALS FOR CANINE BREED IDENTIFICATION
;   FILE REFERENCE: FHCR123760
;   CURRENT APPLICATION NUMBER: US/10/536,369
;   CURRENT FILING DATE: 2005-05-25
;   PRIOR APPLICATION NUMBER: US 60/530,464
;   PRIOR FILING DATE: 2003-12-17
;   NUMBER OF SEQ ID NOS: 327
;   SOFTWARE: PatentIn version 3.2
; SEQ ID NO 301
;   LENGTH: 22
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Oligonucleotide Primer
US-10-536-369-301

    Query Match   59.0%; Score 12.4; DB 6; Length 22;
    Best Local Similarity 64.3%; Pred. No. 1.4e+04;
    Matches   9; Conservative   4; Mismatches   1; Indels   0; Gaps   0;

Qy   7 GUGCCUCCUCACUG 20
              |:| |:||:|||:|
Db   5 GTGACTCCTCACTG 18

RESULT 15
US-11-217-529-27170
; Sequence 27170, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
;   APPLICANT: SUNTORY LIMITED
;   APPLICANT: NAKAO, YOSHIHIRO
;   APPLICANT: NAKAMURA, NORIHISA
;   APPLICANT: KODAMA, YUKIKO
;   APPLICANT: FUJIMURA, TOMOKO
;   APPLICANT: ASHIKARI, TOSHIHIKO
;   TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
;   FILE REFERENCE: S-38-285

```
;   CURRENT APPLICATION NUMBER: US/11/217,529
;   CURRENT FILING DATE:  2005-09-02
;   PRIOR APPLICATION NUMBER: US 10/932,182
;   PRIOR FILING DATE: 2004-09-02
;   NUMBER OF SEQ ID NOS: 197023
;   SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27170
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Saccharomyces pastorianus
US-11-217-529-27170

   Query Match              59.0%;  Score 12.4;  DB 8;  Length 25;
   Best Local Similarity    64.3%;  Pred. No. 1.4e+04;
   Matches    9;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          8 UGCCUCCUCACUGG 21
              :|||:| :|||:||
Db          4 TGCCTCGTCACTGG 17


RESULT 16
US-11-217-529-163600/c
; Sequence 163600, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
;   APPLICANT: SUNTORY LIMITED
;   APPLICANT:   NAKAO, YOSHIHIRO
;   APPLICANT:   NAKAMURA, NORIHISA
;   APPLICANT:   KODAMA, YUKIKO
;   APPLICANT:   FUJIMURA, TOMOKO
;   APPLICANT:   ASHIKARI, TOSHIHIKO
;   TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
;   FILE REFERENCE: S-38-285
;   CURRENT APPLICATION NUMBER: US/11/217,529
;   CURRENT FILING DATE:  2005-09-02
;   PRIOR APPLICATION NUMBER: US 10/932,182
;   PRIOR FILING DATE: 2004-09-02
;   NUMBER OF SEQ ID NOS: 197023
;   SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163600
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Saccharomyces pastorianus
US-11-217-529-163600

   Query Match              58.1%;  Score 12.2;  DB 8;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 UGCGUGCCUCCUCACUG 20
              :| |:|||:| : ||:|
Db         21 TGGGTGCCTCTTGACTG 5


RESULT 17
US-11-348-413-368971
; Sequence 368971, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
```

```
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368971
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 66; Stop 90;
;   OTHER INFORMATION: 000000000011111
US-11-348-413-368971

   Query Match          58.1%;   Score 12.2;  DB 9;   Length 25;
   Best Local Similarity  58.8%;   Pred. No. 1.8e+04;
   Matches   10;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy         1 GGCUGCGUGCCUCCUCA 17
             |||:  |:|||:| :||
Db         9 GGCTAAGTGCCTCATCA 25


RESULT 18
US-11-348-413-368972
; Sequence 368972, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368972
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
```

```
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 67; Stop 91;
;   OTHER INFORMATION: 000000000011111
US-11-348-413-368972

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    58.8%;  Pred. No. 1.8e+04;
   Matches   10;  Conservative   4;  Mismatches   3;  Indels   0;  Gaps   0;


Qy          1 GGCUGCGUGCCUCCUCA 17
              |||:  |:|||:| :||
Db          8 GGCTAAGTGCCTCATCA 24



RESULT 19
US-11-348-413-368973
; Sequence 368973, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT: Mounts, William M
;   APPLICANT: Murphy, Ellen
;   APPLICANT: Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE:  2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368973
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 68; Stop 92;
;   OTHER INFORMATION: 000000000011111
US-11-348-413-368973

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    58.8%;  Pred. No. 1.8e+04;
   Matches   10;  Conservative   4;  Mismatches   3;  Indels   0;  Gaps   0;


Qy          1 GGCUGCGUGCCUCCUCA 17
              |||:  |:|||:| :||
Db          7 GGCTAAGTGCCTCATCA 23



RESULT 20
US-11-348-413-368974
```

; Sequence 368974, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368974
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 69; Stop 93;
;   OTHER INFORMATION: 000000000011111
US-11-348-413-368974

    Query Match   58.1%; Score 12.2; DB 9; Length 25;
    Best Local Similarity   58.8%; Pred. No. 1.8e+04;
    Matches   10; Conservative   4; Mismatches   3; Indels   0; Gaps   0;

Qy   1 GGCUGCGUGCCUCCUCA 17
              |||: |:|||:| :||
Db   6 GGCTAAGTGCCTCATCA 22

RESULT 21
US-11-348-413-368975
; Sequence 368975, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368975

US-11-348-413-368975

   Query Match   58.1%; Score 12.2; DB 9; Length 25;
   Best Local Similarity   58.8%; Pred. No. 1.8e+04;
   Matches   10; Conservative   4; Mismatches   3; Indels   0; Gaps   0;

```
Qy        1 GGCUGCGUGCCUCCUCA 17
            |||:  |:|||:| :||
Db        5 GGCTAAGTGCCTCATCA 21
```


RESULT 22
US-11-348-413-387703/c
US-11-348-413-387703

   Query Match   58.1%; Score 12.2; DB 9; Length 25;
   Best Local Similarity   52.9%; Pred. No. 1.8e+04;
   Matches   9; Conservative   5; Mismatches   3; Indels   0; Gaps   0;

```
Qy        4 UGCGUGCCUCCUCACUG 20
            : ||: | :||:|||:|
Db       25 TTCGTTCTTCCTCACTG 9
```

RESULT 23
US-11-348-413-387704/c
; Sequence 387704, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387704
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 17; Stop 41;
;   OTHER INFORMATION: 000000000001000
US-11-348-413-387704

   Query Match   58.1%; Score 12.2; DB 9; Length 25;
   Best Local Similarity   52.9%; Pred. No. 1.8e+04;
   Matches   9; Conservative   5; Mismatches   3; Indels   0; Gaps   0;

Qy   4 UGCGUGCCUCCUCACUG 20
             : ||: | :||:|||:|
Db   24 TTCGTTCTTCCTCACTG 8

RESULT 24
US-11-348-413-387705/c
; Sequence 387705, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05

```
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387705
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 18; Stop 42;
;    OTHER INFORMATION: 000000000001000
US-11-348-413-387705

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches     9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy          4 UGCGUGCCUCCUCACUG 20
              : ||: | :||:|||:|
Db         23 TTCGTTCTTCCTCACTG 7



RESULT 25
US-11-348-413-387706/c
; Sequence 387706, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387706
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 20; Stop 44;
;    OTHER INFORMATION: 000000000001000
US-11-348-413-387706

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches     9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;
```

```
Qy          4 UGCGUGCCUCCUCACUG 20
              :  | |:  |  :| |:| | |:|
Db         21 TTCGTTCTTCCTCACTG 5


RESULT 26
US-11-348-413-387707/c
; Sequence 387707, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387707
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 21; Stop 45;
;   OTHER INFORMATION: 000000000001000
US-11-348-413-387707

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches     9;  Conservative     5;  Mismatches     3;  Indels     0;  Gaps     0;

Qy          4 UGCGUGCCUCCUCACUG 20
              :  | |:  |  :| |:| | |:|
Db         20 TTCGTTCTTCCTCACTG 4


RESULT 27
US-11-348-413-387708/c
; Sequence 387708, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
```

```
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387708
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 22; Stop 46;
;    OTHER INFORMATION: 000000000001000
US-11-348-413-387708

   Query Match              58.1%;   Score 12.2;  DB 9;   Length 25;
   Best Local Similarity    52.9%;   Pred. No. 1.8e+04;
   Matches    9;  Conservative    5;  Mismatches   3;  Indels    0;  Gaps    0;


Qy         4 UGCGUGCCUCCUCACUG 20
             : ||: | :||:|||:|
Db        19 TTCGTTCTTCCTCACTG 3


RESULT 28
US-11-348-413-387709/c
; Sequence 387709, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT:  Mounts, William M
;   APPLICANT:  Murphy, Ellen
;   APPLICANT:  Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE:  2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387709
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 24; Stop 48;
;    OTHER INFORMATION: 000000000001000
US-11-348-413-387709
```

```
Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;
```

```
Qy        4 UGCGUGCCUCCUCACUG 20
            : ||: | :||:|||:|
Db       17 TTCGTTCTTCCTCACTG 1
```

RESULT 29
US-11-348-413-450436/c
; Sequence 450436, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450436
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 139; Stop 163;
;   OTHER INFORMATION: 000000000011011
US-11-348-413-450436
```

```
Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;
```

```
Qy        3 CUGCGUGCCUCCUCACU 19
            |:|| :| |: |:|||:
Db       25 CTGCTTGTCTACTCACT 9
```

RESULT 30
US-11-348-413-450437/c
; Sequence 450437, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
.; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen

; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450437
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 140; Stop 164;
;   OTHER INFORMATION: 000000000011011
US-11-348-413-450437

   Query Match   58.1%; Score 12.2; DB 9;   Length 25;
   Best Local Similarity   52.9%; Pred. No. 1.8e+04;
   Matches   9; Conservative   5; Mismatches   3; Indels   0; Gaps   0;

Qy   3 CUGCGUGCCUCCUCACU 19
            |:|| :| |: |:|||:
Db   24 CTGCTTGTCTACTCACT 8

RESULT 31
US-11-348-413-450438/c
; Sequence 450438, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT: Mounts, William M
;   APPLICANT: Murphy, Ellen
;   APPLICANT: Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE: 2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450438
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature

```
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 141; Stop 165;  .
;    OTHER INFORMATION: 000000000011011
US-11-348-413-450438

   Query Match             58.1%;  Score 12.2;  DB 9;  Length 25;
.  Best Local Similarity   52.9%;  Pred. No. 1.8e+04;
   Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy          3 CUGCGUGCCUCCUCACU 19
              |:|| :| |: |:|||:
Db         23 CTGCTTGTCTACTCACT 7



RESULT 32
US-11-348-413-450439/c
; Sequence 450439, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05  .
; PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05·
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450439
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 142; Stop 166;
;    OTHER INFORMATION: 000000000011011
US-11-348-413-450439

   Query Match             58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity   52.9%;  Pred. No. 1.8e+04;
   Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy          3 CUGCGUGCCUCCUCACU 19
              |:|| :| |: |:|||:
Db         22 CTGCTTGTCTACTCACT 6



RESULT 33
US-11-348-413-450440/c
; Sequence 450440, Application US/11348413
; Publication No. US20060160121A1  .
; GENERAL INFORMATION:
```

   Query Match   58.1%;   Score 12.2;   DB 9;   Length 25;
   Best Local Similarity   52.9%;   Pred. No. 1.8e+04;
   Matches   9; Conservative   5; Mismatches   3; Indels   0; Gaps   0;

Qy   3 CUGCGUGCCUCCUCACU 19
              |:|| :| |: |:|||:
Db   21 CTGCTTGTCTACTCACT 5

RESULT 34
US-11-348-413-450441/c

```
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 144; Stop 168;
;    OTHER INFORMATION: 000000000011011
US-11-348-413-450441

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches     9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy           3 CUGCGUGCCUCCUCACU 19
               |:|| :| |: |:|||:
Db          20 CTGCTTGTCTACTCACT 4



RESULT 35
US-11-348-413-450442/c
; Sequence 450442, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT:  Mounts, William M
;   APPLICANT:  Murphy, Ellen
;   APPLICANT:  Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE:  2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450442
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 145; Stop 169;
;   OTHER INFORMATION: 000000000011011
US-11-348-413-450442

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches     9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy           3 CUGCGUGCCUCCUCACU 19
               |:|| :| |: |:|||:
Db          19 CTGCTTGTCTACTCACT 3



RESULT 36
```

US-11-348-413-450443/c
; Sequence 450443, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT: Mounts, William M
;   APPLICANT: Murphy, Ellen
;   APPLICANT: Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE: 2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450443
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 146; Stop 170;
;   OTHER INFORMATION: 000000000011011
US-11-348-413-450443

   Query Match   58.1%;   Score 12.2;   DB 9;   Length 25;
   Best Local Similarity 52.9%;   Pred. No. 1.8e+04;
   Matches   9; Conservative   5; Mismatches   3; Indels   0; Gaps   0;

Qy   3 CUGCGUGCCUCCUCACU 19
               |:|| :| |: |:|||:
Db   18 CTGCTTGTCTACTCACT 2

RESULT 37
US-11-348-413-450444/c
; Sequence 450444, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;   APPLICANT: Wyeth
;   APPLICANT: Mounts, William M
;   APPLICANT: Murphy, Ellen
;   APPLICANT: Olmsted, Stephen
;   TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;   FILE REFERENCE: 031896-084100 (AM 101724)
;   CURRENT APPLICATION NUMBER: US/11/348,413
;   CURRENT FILING DATE: 2006-02-07
;   PRIOR APPLICATION NUMBER: PCT/US05/035471
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 11/243,445
;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209

```
;  SEQ ID NO 450444
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 147; Stop 171;
;    OTHER INFORMATION: 000000000011011
US-11-348-413-450444

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    52.9%;  Pred. No. 1.8e+04;
   Matches    9;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;


Qy          3 CUGCGUGCCUCCUCACU 19
              |:|| :| |: |:|||:
Db         17 CTGCTTGTCTACTCACT 1



RESULT 38
US-11-348-413-830449
; Sequence 830449, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
;  APPLICANT: Wyeth
;  APPLICANT:  Mounts, William M
;  APPLICANT:  Murphy, Ellen
;  APPLICANT:  Olmsted, Stephen
;  TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
;  FILE REFERENCE: 031896-084100 (AM 101724)
;  CURRENT APPLICATION NUMBER: US/11/348,413
;  CURRENT FILING DATE:  2006-02-07
;  PRIOR APPLICATION NUMBER: PCT/US05/035471
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 11/243,445
;  PRIOR FILING DATE: 2005-10-05
;  PRIOR APPLICATION NUMBER: US 60/615,573
;  PRIOR FILING DATE: 2004-10-05
;  NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 830449
;    LENGTH: 25
;    TYPE: DNA
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: probe
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)..(25)
;    OTHER INFORMATION: SEQ ID NO: 6414; WAN01UKPU_at; Start 73; Stop 97;
;    OTHER INFORMATION: 000000011100000
US-11-348-413-830449

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    58.8%;  Pred. No. 1.8e+04;
   Matches   10;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;


Qy          1 GGCUGCGUGCCUCCUCA 17
              |||:| |:| |:||: |
```

Db   9 GGCTGTGTGGCTCCTAA 25

RESULT 39
US-11-348-413-849250/c
; Sequence 849250, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 849250
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 6900; WAN01ULNJ_at; Start 278; Stop 302;
;   OTHER INFORMATION: 000000011100000
US-11-348-413-849250

   Query Match   58.1%;   Score 12.2;   DB 9;   Length 25;
   Best Local Similarity 58.8%;   Pred. No. 1.8e+04;
   Matches   10; Conservative   4; Mismatches   3; Indels   0; Gaps   0;

Qy   1 GGCUGCGUGCCUCCUCA 17
              | |: ||:|||:| :||
Db   24 GTCTCCGTGCCTCATCA 8

RESULT 40
US-11-348-413-1007606/c
; Sequence 1007606, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445

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;   PRIOR FILING DATE: 2005-10-05
;   PRIOR APPLICATION NUMBER: US 60/615,573
;   PRIOR FILING DATE: 2004-10-05
;   NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 1007606
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: probe
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(25)
;   OTHER INFORMATION: SEQ ID NO: 11333; WAN01UH2D_at; Start 483; Stop 507;
;   OTHER INFORMATION: 000000000011111
US-11-348-413-1007606

   Query Match              58.1%;  Score 12.2;  DB 9;  Length 25;
   Best Local Similarity    58.8%;  Pred. No. 1.8e+04;
   Matches   10;  Conservative   4;  Mismatches   3;  Indels   0;  Gaps   0;

Qy          1 GGCUGCGUGCCUCCUCA 17
              |||:  |:|||:| :||
Db         23 GGCTAAGTGCCTCATCA 7


Search completed: November 20, 2006, 06:32:00
Job time : 136 secs
```

Matches   21; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 GGCUGCGUGCCUCCUCACUGG 21
        |||||||||||||||||||||
Db    1 GGCUGCGUGCCUCCUCACUGG 21
```


RESULT 4
US-10-728-491-22
; Sequence 22, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
;   APPLICANT: Wang, Jui, H
;   TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
;   FILE REFERENCE: 11520.0338
;   CURRENT APPLICATION NUMBER: US/10/728,491
;   CURRENT FILING DATE: 2003-12-05
;   PRIOR APPLICATION NUMBER: US 60/431,694
;   PRIOR FILING DATE: 2002-12-05
;   NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 22
;   LENGTH: 23
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide 22-mer
US-10-728-491-22

  Query Match   100.0%; Score 21; DB 8; Length 23;
  Best Local Similarity 100.0%; Pred. No. 6.3;
  Matches   21; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy    1 GGCUGCGUGCCUCCUCACUGG 21
        |||||||||||||||||||||
Db    1 GGCUGCGUGCCUCCUCACUGG 21
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RESULT 5
US-10-291-058A-8/c   wo/99 50409
; Sequence 8, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
;   APPLICANT: Zhou, Wen-Qiang
;   APPLICANT: Agrawal, Sudhir
;   TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
;   TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
;   FILE REFERENCE: 47508-752
;   CURRENT APPLICATION NUMBER: US/10/291,058A
;   CURRENT FILING DATE: 2002-11-08
;   PRIOR APPLICATION NUMBER: US 09/283,431
;   PRIOR FILING DATE: 1999-04-01
;   NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 30
;   TYPE: RNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: RNA phosphodiester
US-10-291-058A-8

```
     Query Match              100.0%;  Score 21;  DB 7;  Length 30;
     Best Local Similarity    76.2%;  Pred. No. 6;
     Matches   16;  Conservative    5;  Mismatches    0;  Indels    0;  Gaps    0;


Qy        1 GGCUGCGUGCCUCCUCACUGG 21
            |||:|||:|||:||:|||:||
Db       28 GGCTGCGTGCCTCCTCACTGG 8
```

RESULT 6
US-10-728-491-21
; Sequence 21, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 21
;   LENGTH: 20
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: Antisense oligoribunucleotide 20-mer
US-10-728-491-21

```
     Query Match               95.2%;  Score 20;  DB 8;  Length 20;
     Best Local Similarity    100.0%;  Pred. No. 19;
     Matches   20;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;


Qy        1 GGCUGCGUGCCUCCUCACUG 20
            ||||||||||||||||||||
Db        1 GGCUGCGUGCCUCCUCACUG 20
```

RESULT 7
US-10-728-491-10
; Sequence 10, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 10
;   LENGTH: 21
;   TYPE: RNA
;   ORGANISM: artificial sequence
;   FEATURE:
;   OTHER INFORMATION: One-base mismatch at position 21 with poly-DNP-RNA-21
US-10-728-491-10

```
     Query Match               95.2%;  Score 20;  DB 8;  Length 21;
```